APPENDIX L. BACKGROUND AND REFERENCE AREA DATA

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Acronyms

BERA	baseline ecological risk assessment
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DDT	dichlorodiphenyltrichloroethane
HPAH	high-molecular-weight polycyclic aromatic hydrocarbon
LPRSA	Lower Passaic River Study Area
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PCDD	polychlorinated dibenzo-*p*-dioxin
PCDF	polychlorinated dibenzofuran
ppt	parts per thousand
SAV	submerged aquatic vegatation
SQT	sediment quality triad
TEQ	toxic equivalent
TOC	total organic carbon
Total DDx	sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

1 Introduction

The purpose of this appendix is to provide context for the comparison of sediment toxicity and benthic invertebrate community metric data from regional estuarine (Jamaica Bay and Mullica River/Great Bay) and freshwater (Mullica River and the area above Dundee Dam) reference areas to data from the Lower Passaic River Study Area (LPRSA) made in the *Lower Passaic River Study Area Baseline Ecological Risk Assessment* (BERA). Comparisons of LPRSA sediment toxicity and benthic invertebrate community metric data are presented and discussed in Appendices B and P (and summarized in Section 6 of the BERA main text). Section 2 provides information regarding each reference area, and Section 3 provides graphical comparisons of physical sediment habitat data or chemical concentration data between reference areas and the LPRSA.

In Section 3, box plots are used to show the relative distributions of available habitat characteristic and sediment chemistry data from the reference areas as compared to the LPRSA (split into benthic salinity zones).[1] Habitat characteristic data include salinity, total organic carbon (TOC) as a percent of the total sediment weight, and the percent by weight of fine silt and clay particles (referred to herein as "fines"). TOC, fines, and salinity represent three of the more important natural environmental factors that influence benthic invertebrate community composition and function (Pearson and Rosenberg 1978; Diaz and Rosenberg 1995; Rosenberg 1977, 1976; Rosenberg et al. 1992; Rosenberg and Möller 1979; Nilsson and Rosenberg 2000; Pelletier et al. 2011; Hyland et al. 2005; Savage et al. 2002; Shin et al. 2008; Anderson 2008; Thrush et al. 2005; Cheung et al. 2008; Relyea et al. 2000, 2012; Levinton 1982), although others certainly exist;[2] this is discussed further in Section 2. Although pore water salinity data were collected in the LPRSA, such data were not available for reference area samples. Instead, co-located water column salinity data from reference areas (excepting the area above Dundee Dam and Mullica River [freshwater]) are compared with interstitial data from the LPRSA (Section 3.1). Salinity in pore water and surface water may be slightly or significantly different depending on the location, season, and/or sediment grain size. This remains a point of uncertainty for the comparisons of salinity data presented in Section 3.1 of this appendix. Salinities from the freshwater portion of the Mullica River and from above Dundee Dam are assumed to be entirely freshwater (e.g., salinity < 0.5 parts per thousand [ppt]). Data from those areas are not presented in Section 3.1.

[1] See BERA Section 2.1.1.1 for more information on benthic salinity zones.

[2] Examples of other relevant environmental factors not explicitly addressed in this appendix include seasonality (e.g., temperature and amount of precipitation and daylight hours) (Silva et al. 2006), hydrology (Walsh et al. 2005; Lake 2000), inorganic nutrients (Posey et al. 1999; Posey et al. 2002), dissolved oxygen (Belley et al. 2010; Lowell and Culp 1999), and water temperature (Haidekker 2004; Carolli et al. 2012). Sediment contamination can also drive benthic community composition and function by causing toxicity.

Although the entire suite of chemical analytes measured in LPRSA sediment quality triad (SQT) samples (in fall 2009) was also measured in samples from above Dundee Dam (in fall 2012), the analytes presented in this appendix are those that were also available from the Jamaica Bay, Mullica River (freshwater), and Mullica River/Great Bay reference areas and that were assessed as part of the background evaluation in Appendix J. Appendix J contains additional comparison between sediment chemistry data from the area above Dundee Dam and from the LPRSA.

2 Discussion of physical characteristics by area

Habitat characteristics can have a marked influence on benthic invertebrate community structure, sediment chemistry, and sediment toxicity, as well as SQT analyses. USEPA (1994) recommends that reference sites match the Superfund site, to the extent practicable, in all aspects except contamination. The comparison of LPRSA habitat to reference area habitat is, therefore, an important component of the comparison of SQT data from the LPRSA and reference areas. A comparison of the selected references areas to the LPRSA is discussed in the following subsections.

2.1 JAMAICA BAY

Jamaica Bay is a saline to brackish embayment at the southwestern end of Long Island that is influenced by a highly developed upland (e.g., Brooklyn and Queens boroughs of New York City and John F. Kennedy airport) with urban, residential, commercial, and industrial land surrounding much of the bay (USFWS 1997). Much of the area, however, lies within the federally managed Gateway National Recreation Area, which includes the Jamaica Bay Wildlife Refuge and other parks.

Sediment in Jamaica Bay is predominately fine in the eastern and northern portions, and sandier in the southern and western portions (USFWS 1997). The water body is notably impacted by anthropogenic inputs of inorganic nutrients and organic matter (e.g., sewage and TOC) (Waldman 2008; NRDC 2007), but the benthic community in the area is quite rich (USFWS 1997). Historical dredging has affected hydrology and sediment transport within Jamaica Bay (Waldman 2008). Historically, some parts of Jamaica Bay have been contaminated by polycyclic aromatic hydrocarbons (PAHs) and metals (USFWS 1997); however, samples included in the sediment toxicity (and benthic metric) datasets to be used as reference conditions for the LPRSA contained markedly lower concentrations of PAHs and metals than did samples from the upper estuarine and fluvial estuarine zones of the LPRSA (Figures 3-11, and 3-15 through 3-21).

Measured TOC from Jamaica Bay and the LPRSA were similar, although sediment grain size (as percent fine-grained material) differed somewhat between the Jamaica Bay and LPRSA datasets (Figure 3-2). Specifically, the grain size data from the upper estuary in the LPRSA differed from that of Jamaica Bay sediment, in that sediment in the estuarine zone of the LPRSA tended to be composed of more fine-grained sediment than sediment in Jamaica Bay. Conversely, the sediment grain size data from the fluvial estuary of the LPRSA was similar to the Jamaica Bay sediment grain size data.

The most apparent difference in habitat characteristics in samples from the LPRSA and Jamaica Bay is salinity (Figure 3-3), which was clearly higher throughout the Jamaica Bay dataset (approximately 25 to 30 ppt); this range is consistent with salinities reported in the literature for the area (USFWS 1997). Although the LPRSA and Jamaica Bay are both estuarine (i.e., tidally influenced), it is likely that the sampling locations in the

LPRSA receive a greater freshwater flow, as they are within the tidally influenced portion of the river, rather than a more open embayment like Jamaica Bay. It is expected that the wide range of salinities observed in the upper estuarine zone of the LPRSA has a marked influence on the composition of the benthic invertebrate communities found throughout that zone (Levinton 1982); the same is expected of communities measured throughout the fluvial estuarine zone because the range of observed salinities overlaps with the range of "critical salinities" at which estuarine benthic invertebrate communities tend to be most stressed (by salinity) and least diverse (Levinton 1982; Chapman and Wang 2001).

The dataset from Jamaica Bay was collected within the same season (July to September) but in different years (1993, 1994, 1998, and 2003). The dominant Jamaica Bay benthic community described in the literature appears to be functionally similar to that of the LPRSA, in that bivalves and polychaetes contribute substantially to the benthic biomass (USFWS 1997). This indicates that the major sources of carbon available to the benthic invertebrate community are similar, predominately organic carbon-rich sediment and particulate matter.[3]

A major difference between the LPRSA and Jamaica Bay is the availability of submerged aquatic vegetation (SAV) and salt marsh habitat in the reference area (Waldman 2008; NRDC 2007). Salt marshes and submerged vegetation provide more complex estuarine habitat for infaunal benthic and epibenthic invertebrates than might be provided by unvegetated or poorly vegetated benthic habitat (with the possible exception of productive mudflats) (Johnson et al. 2002; Orth et al. 1984; Böstrom and Bonsdorff 2000). Differences in benthic invertebrate community structure, diversity, or the presence of specific taxa between the LPRSA and Jamaica Bay may reflect this apparent difference in habitat availability.

2.2 MULLICA RIVER/GREAT BAY ESTUARY

The Mullica River and Great Bay Estuary complex is a well-mixed, semi-diurnally, tidally influenced estuary situated in southeastern New Jersey (north of Atlantic City) that receives freshwater inputs almost entirely from the central Pinelands (USFWS 1997). Salinities within Great Bay range from 14 to 30 ppt throughout the year, and decrease upstream to approximately 1 ppt below Lower Bank (13 river miles upstream of the mouth of the Mullica River) (USFWS 1997). The range in salinity is similar to that observed in the LPRSA. Approximately 22% of Great Bay is covered by mud and sand flat habitat with extensive SAV (USFWS 1997), differentiating this area from the historically dredged and channelized LPRSA. Although development is of concern for conservation in the area, very little of the total watershed is currently developed for urban land use (NOAA 2009). Median sediment TOC in the Mullica River/Great Bay

[3] The availability of organically enriched sediment and particulates is unsurprising given that Jamaica Bay receives substantial inputs of municipal sewage and other urban stormwater inputs (Waldman 2008; NRDC 2007), similar to the LPRSA.

sediment samples were generally lower than TOC measured in LPRSA sediment samples, although the range of observed values was similar to that of the LPRSA (Figure 3-2). Sediment grain size (i.e., total fines) was similar between the Mullica River/Great Bay areas and comparable salinity zones of the LPRSA (Figure 3-1).

Waters draining from the Mullica River are characteristic of Pine Barrens streams; the riverine nutrient content and pH tend to be low and organic carbon content (e.g., humic acids) tends to be high. Although the acidic waters of the Mullica River (pH 4.4 on average) (USFWS 1997) may result in the presence of a greater variety of acid-tolerant benthic species than in the LPRSA, the functional characteristics of the Mullica River/Great Bay Estuary benthic community (e.g., biomass dominated by detritus-eating taxa) (USFWS 1997) do not appear to differ from those of the estuarine portions of the LPRSA. The sediment samples from the Mullica River/Great Bay Estuary were collected entirely within late summer months but during different years (i.e., 2000–2004 and 2006).

As noted for Jamaica Bay (in Section 2.1), the presence of SAV throughout the Mullica River/Great Bay Estuary could result in differences from the LPRSA in observed benthic invertebrate community structure and diversity.

2.3 ABOVE DUNDEE DAM

Habitat observed above Dundee Dam was similar to that of the tidal freshwater zone of the LPRSA; both the percent of fine-grained sediment and TOC (Figures 3-1 and 3-2, respectively) were generally similar between the two areas. Both areas are considered freshwater environments since measured salinity was low (i.e., < 0.5 ppt).

The area above Dundee Dam is quite similar to the LPRSA tidal freshwater zone, but for the site-related source(s) of hazardous substances. Some chemical analyte concentrations (e.g., polychlorinated dibenzo-*p*-dioxins/ polychlorinated dibenzofurans [PCDD/PCDFs] and total DDx [sum of all six dichlorodiphenyltrichloroethane (DDT) isomers (2,4′-dichlorodiphenyldichloroethane [DDD], 4,4′-DDD, 2,4′-dichlorodiphenyldichloroethylene [DDE], 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)]) tend to be lower above Dundee Dam compared to their concentrations just below it (Figures 3-7, 3-8,and 3-10). However, other chemicals generally associated with urban water bodies[4] (e.g., metals and PAHs) are similar between the two areas (Figures 3-11, and 3-15 through 3-21).

2.4 FRESHWATER PORTION OF THE MULLICA RIVER

The Mullica River watershed is a reference area with very few urban inputs. The area above Lower Bank (near Washington, New Jersey) is consistently freshwater, with year-round salinities < 1 ppt (USFWS 1997). Few data exist for TOC or sediment grain size distributions for the Mullica River above Lower Bank, but those few that are available

[4] Including relatively less contaminated areas like Jamaica Bay (USFWS 1997).

suggest that Mullica River sediments have fairly similar grain size and organic content to those of the tidal freshwater LPRSA (Figures 2-1 and 2-2). Because of the small sample size for the freshwater Mullica River, SQT data from that area are not used in the BERA to characterize risk. SQT data from the Mullica River are, however, used to characterize uncertainty associated with the benthic invertebrate community and sediment toxicity lines of evidence (Appendix P, Sections 2.3.4 and 3.2.5, respectively).

Sediment samples from the Mullica River freshwater reference area were collected during different seasons and years (i.e., February and March 1995, February and March 2000, November 2004, July 2005, and April 2006). Rather than pooling data from replicated sampling locations across seasons and years, each sample was treated as unique.

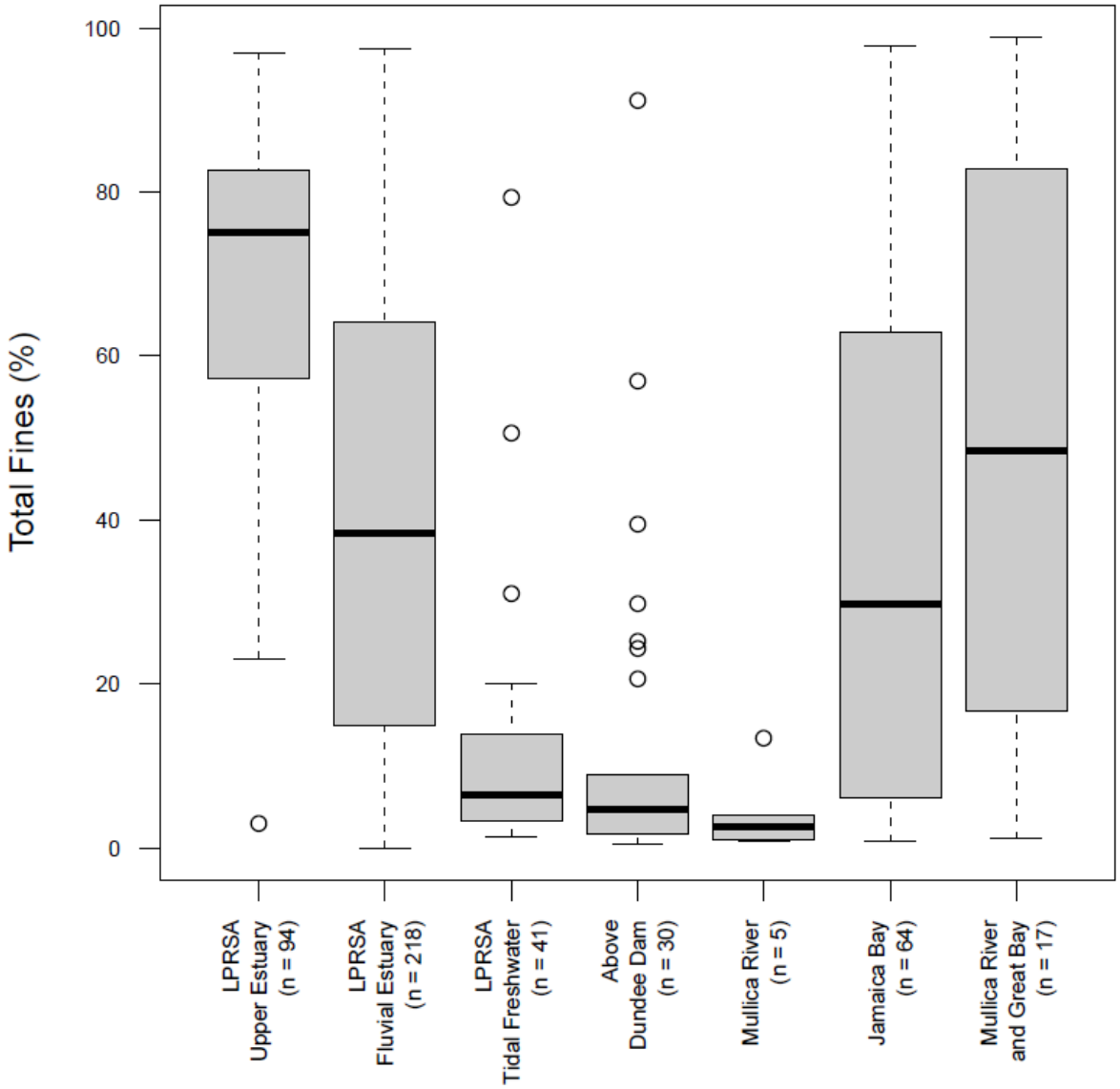
3 Comparisons of LPRSA and Reference Area Data

The following figures provide a comparison of the distributions of LPRSA sediment chemical and physical data to regional and upstream reference area data.[5] One or more reference area datatsets are not shown in several figures presented in this section; this is the case only when no data are available from the omitted reference area dataset for the applicable parameter. No effort was made to remove outliers or to otherwise pre-screen and remove reference area samples from the datasets described by the following figures. Therefore, the figures depict the full range of measured sediment concentrations or physical data (i.e., TOC, fines, or salinity) associated with reference conditions without the imposition of statistical or arbitrary constraints on those datasets.

3.1 PHYSICAL CHARACTERISTICS

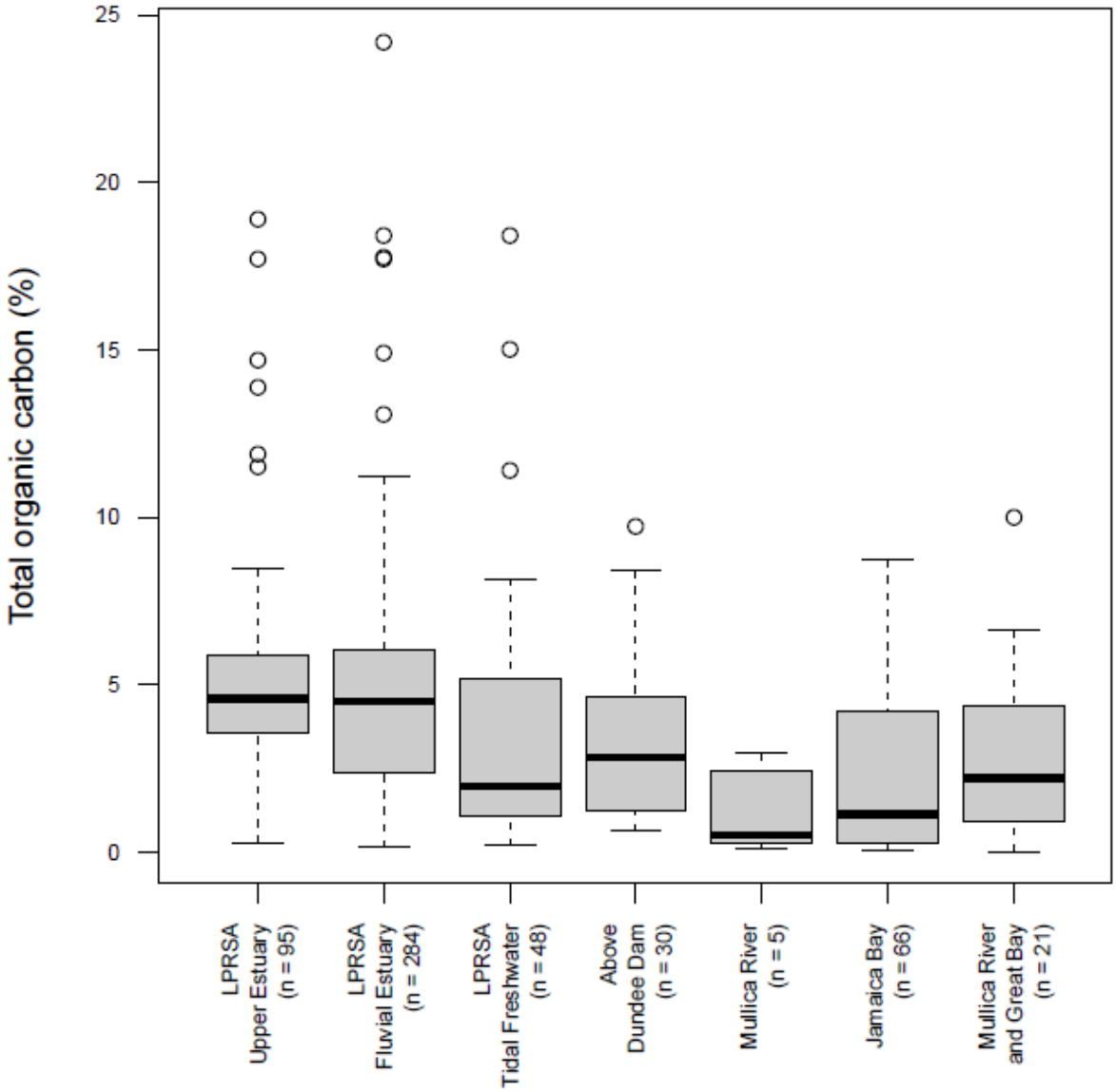
The figures show both key differences and similarities between the LPRSA (salinity zone) and reference area data. Figures 3-1 through 3-3 show physical characeteristics; total fines and TOC appear to be generally similar (i.e., substantial overlap of distributions) across comparable datasets (Figures 3-1 and 3-2), whereas salinity appears to be quite different across datasets (Figure 3-3). For example, Jamaica Bay surface water samples have relatively stable and greater salinity relative to interstitial salinity in the LPRSA estuarine zones. Mullica River/Great Bay surface water samples have greater variability than other datasets, but they still have greater interstitial salinity than samples from comparable LPRSA zones. Comparisons of salinity between freshwater areas, although not shown, are expected to align well.

[5] Figures are not presented in any particular order.



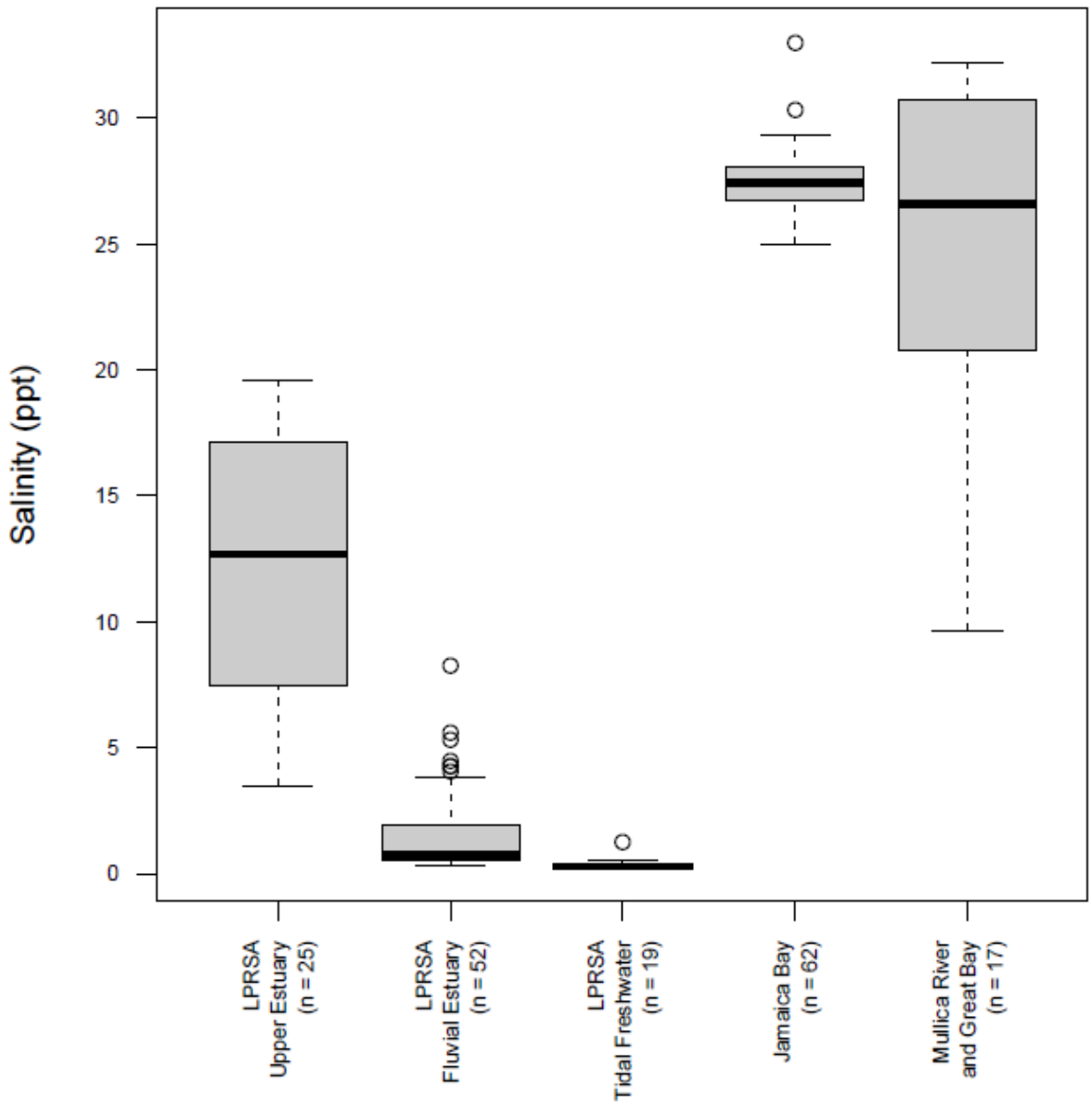
n – sample size

Figure 3-1.Total fine grained sediment in LPRSA and reference areas



n – sample size

Figure 3-2.Total organic carbon in LPRSA and reference area sediments



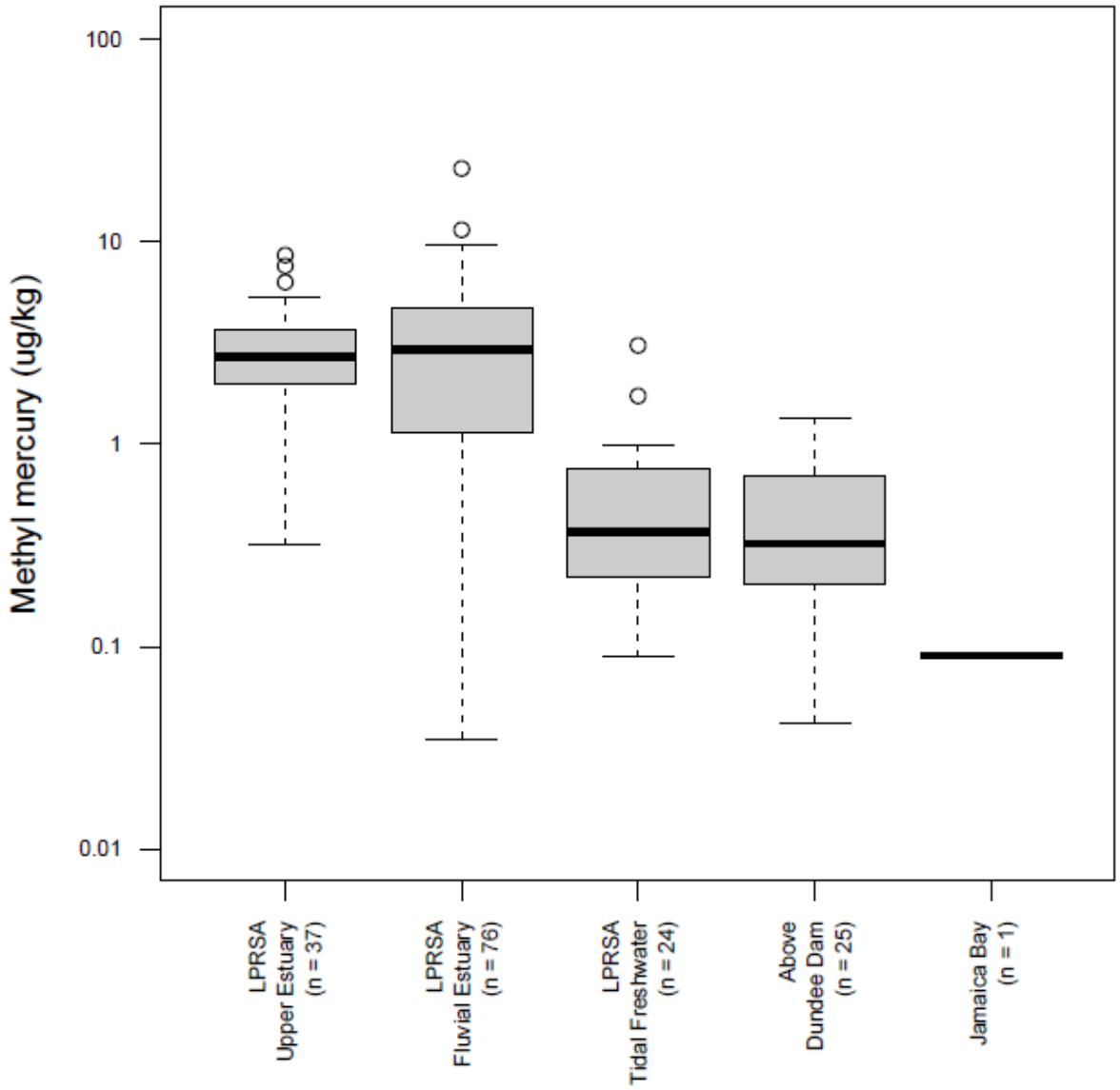
Note: LPRSA salinity based on interstitial porewater measurements at the time of sediment collection for toxicity testing. Reference area salinity data collected in surface waters near sampling locations; sediment sampling and salinity measurements were not contemporaneous.

n – sample size

Figure 3-3.Salinity in LPRSA and reference areas

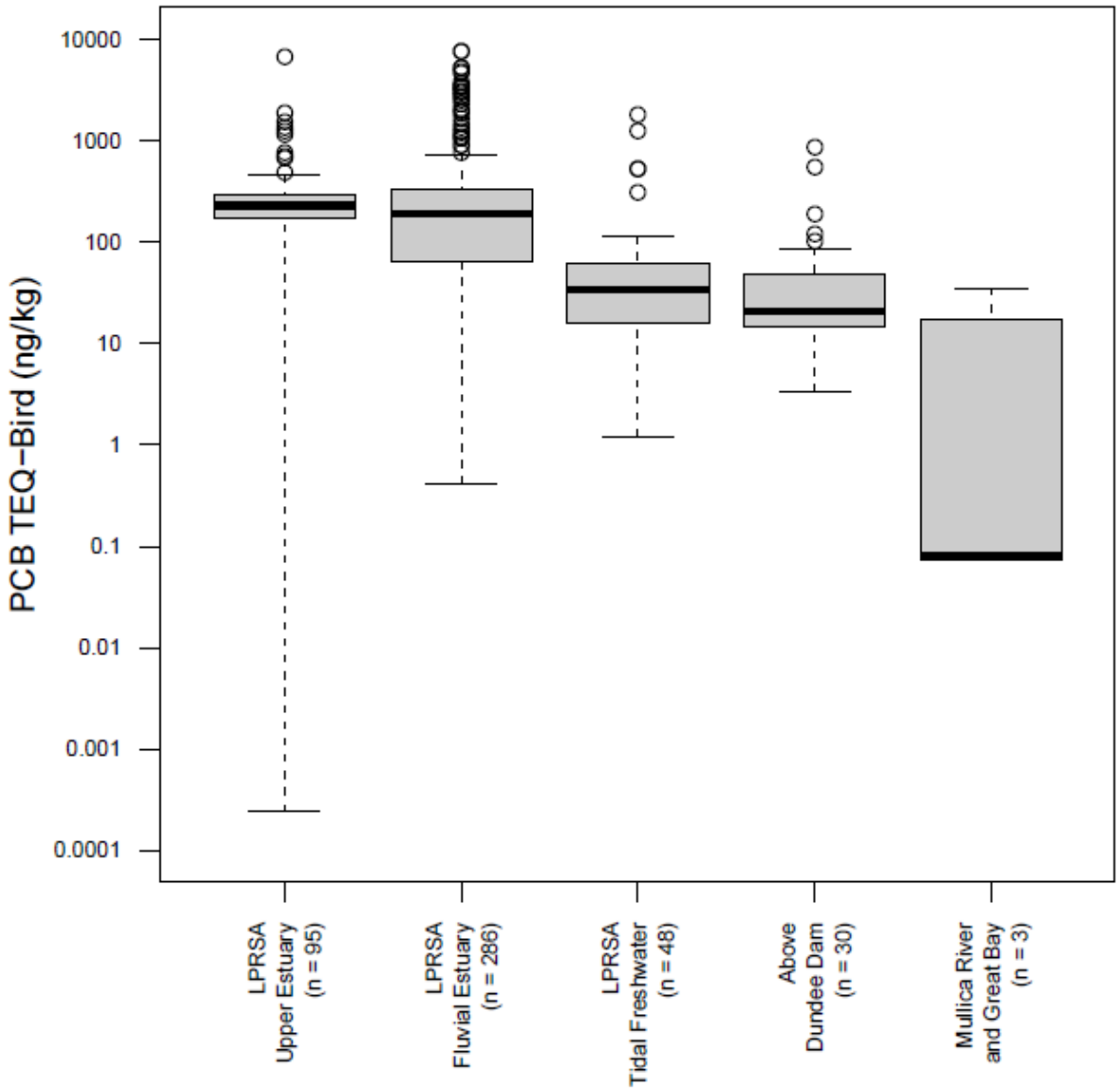
3.2 SEDIMENT CHEMISTRY

Sediment chemistry concentrations in the LPRSA generally exceed concentrations in regional reference areas (Jamaica Bay, Mullica River [freshwater], or Mullica River/Great Bay), although not always (Figures 3-4 through 3-23). Selenium is an exception; it appears to be greater in estuarine datasets (both LPRSA and reference areas) than in freshwater datasets (Figure 3-9). The urban freshwater reference area, above Dundee Dam, often has similar or slighly greater concentrations of certain contaminants (e.g., mercury, high-molecular-weight polycyclic aromatic hydrocarbons [HPAHs], and benzo[a]pyrene) than the LPRSA, downstream.



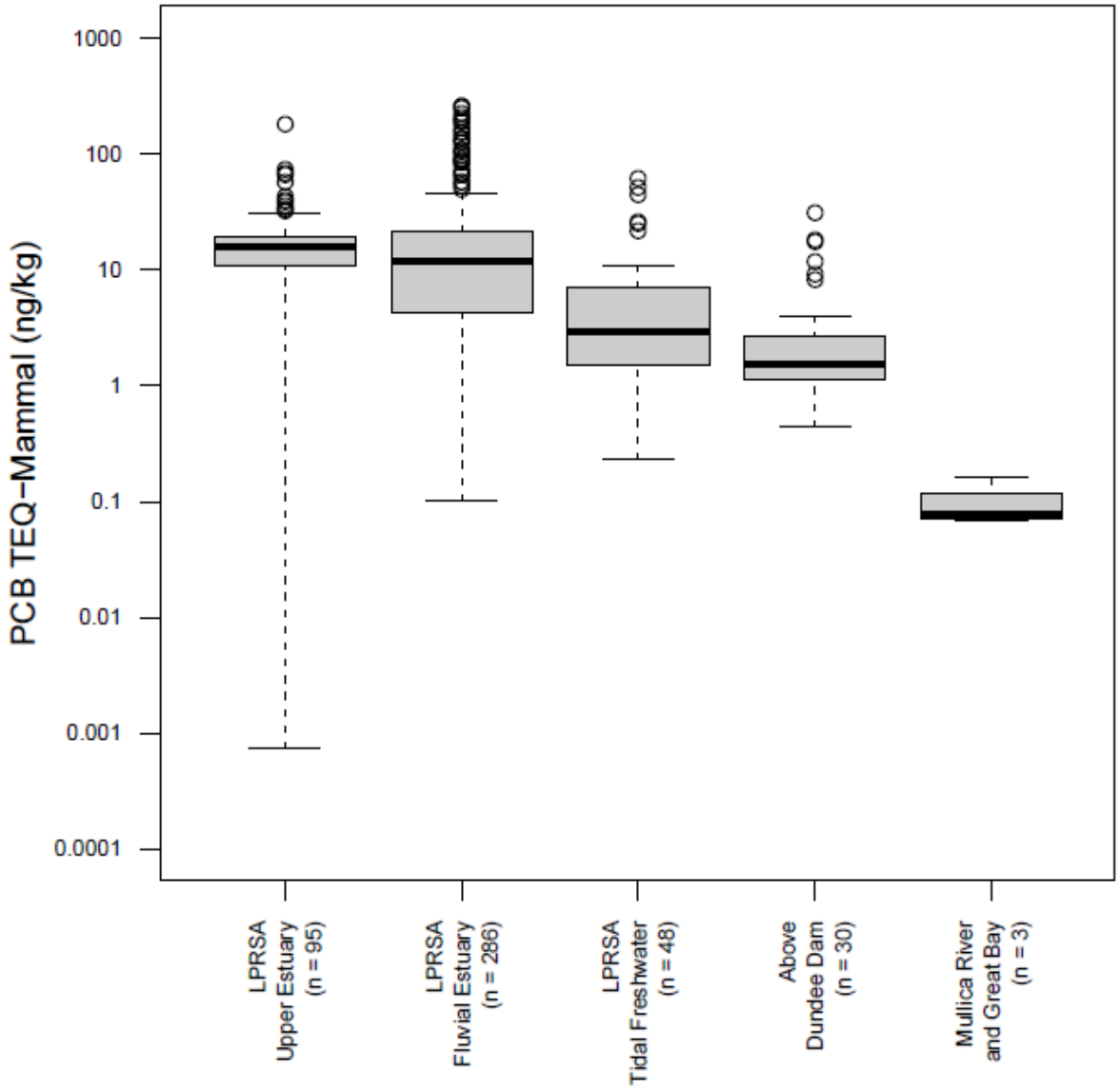
n – sample size

Figure 3-4.Methyl mercury in LPRSA and reference area sediments



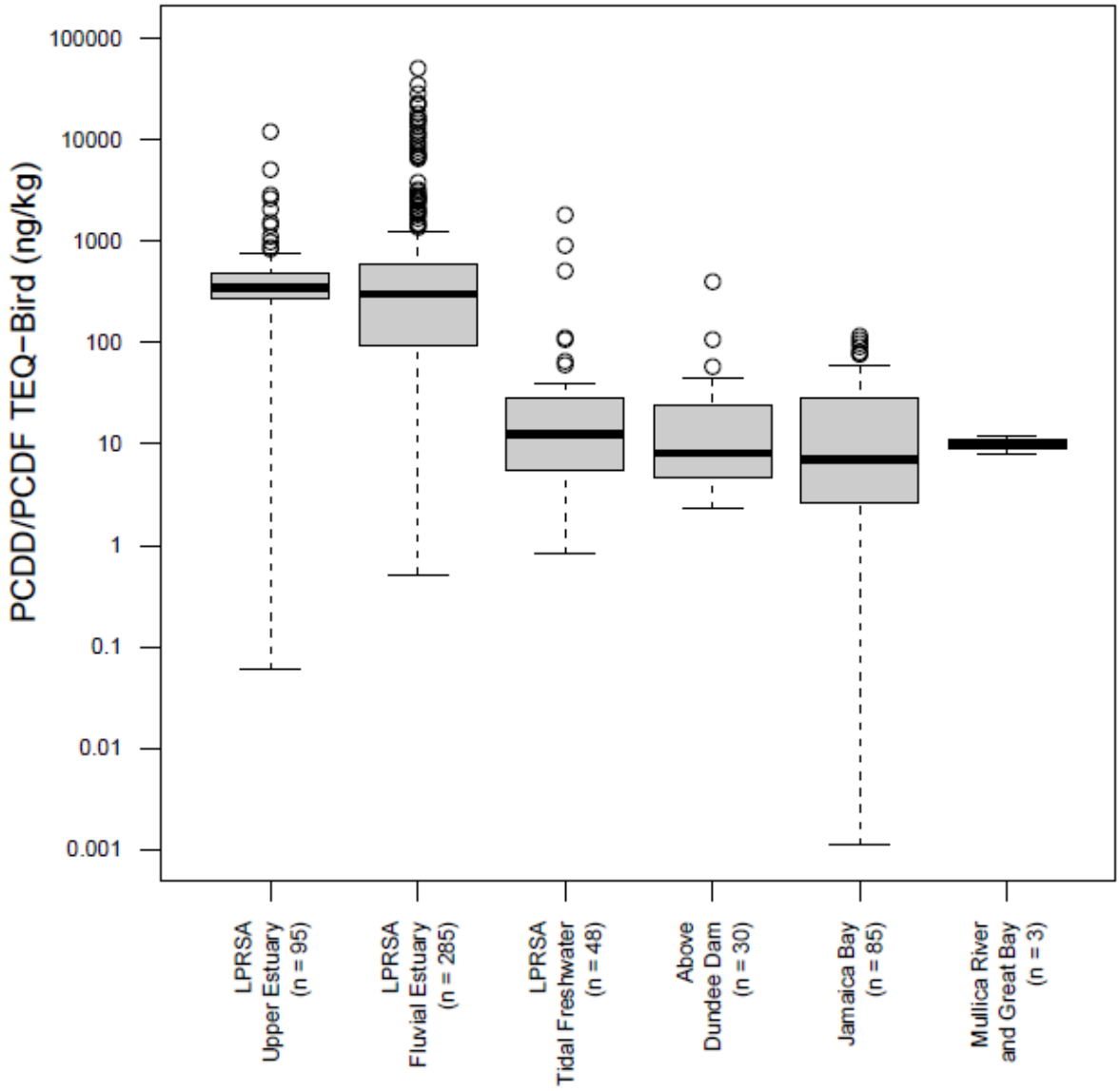
TEQ – toxic equivalent
n – sample size

Figure 3-5.PCB TEQ-bird in LPRSA and reference area sediments



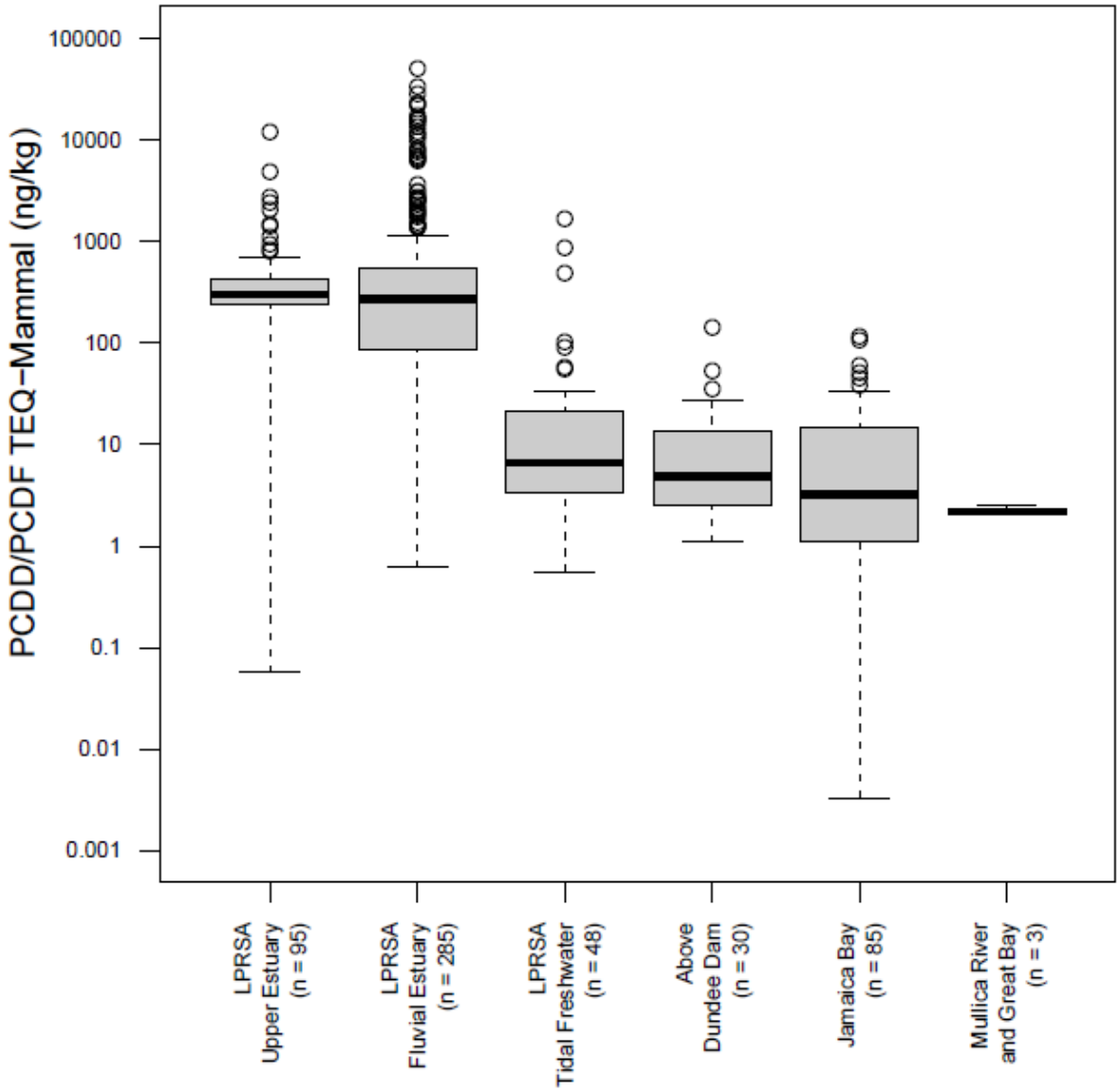
TEQ – toxic equivalent
n – sample size

Figure 3-6.PCB TEQ-mammal in LPRSA and reference area sediments



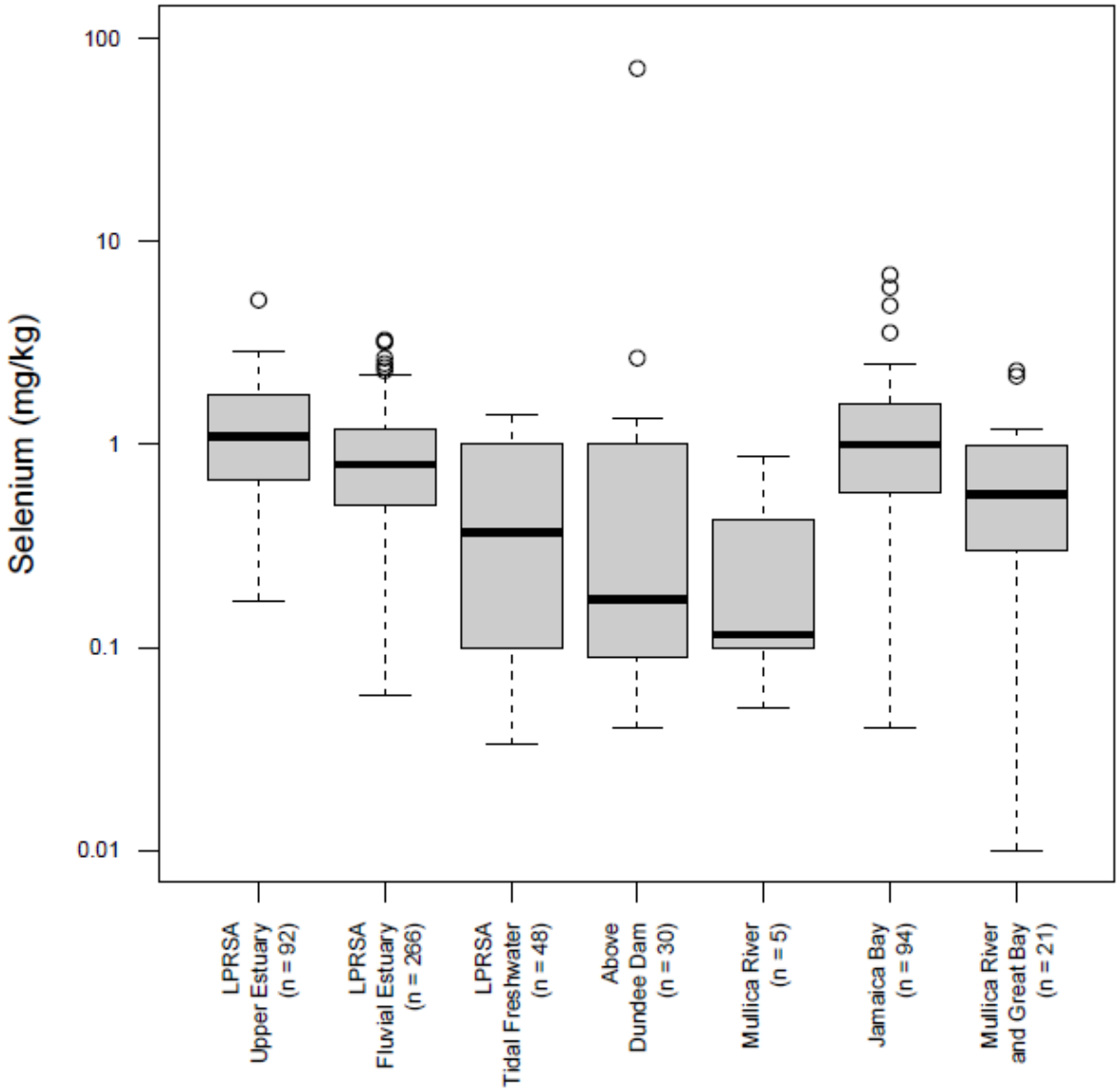
TEQ – toxic equivalent
n – sample size

Figure 3-7.PCDD/PCDF TEQ-bird in LPRSA and reference area sediments



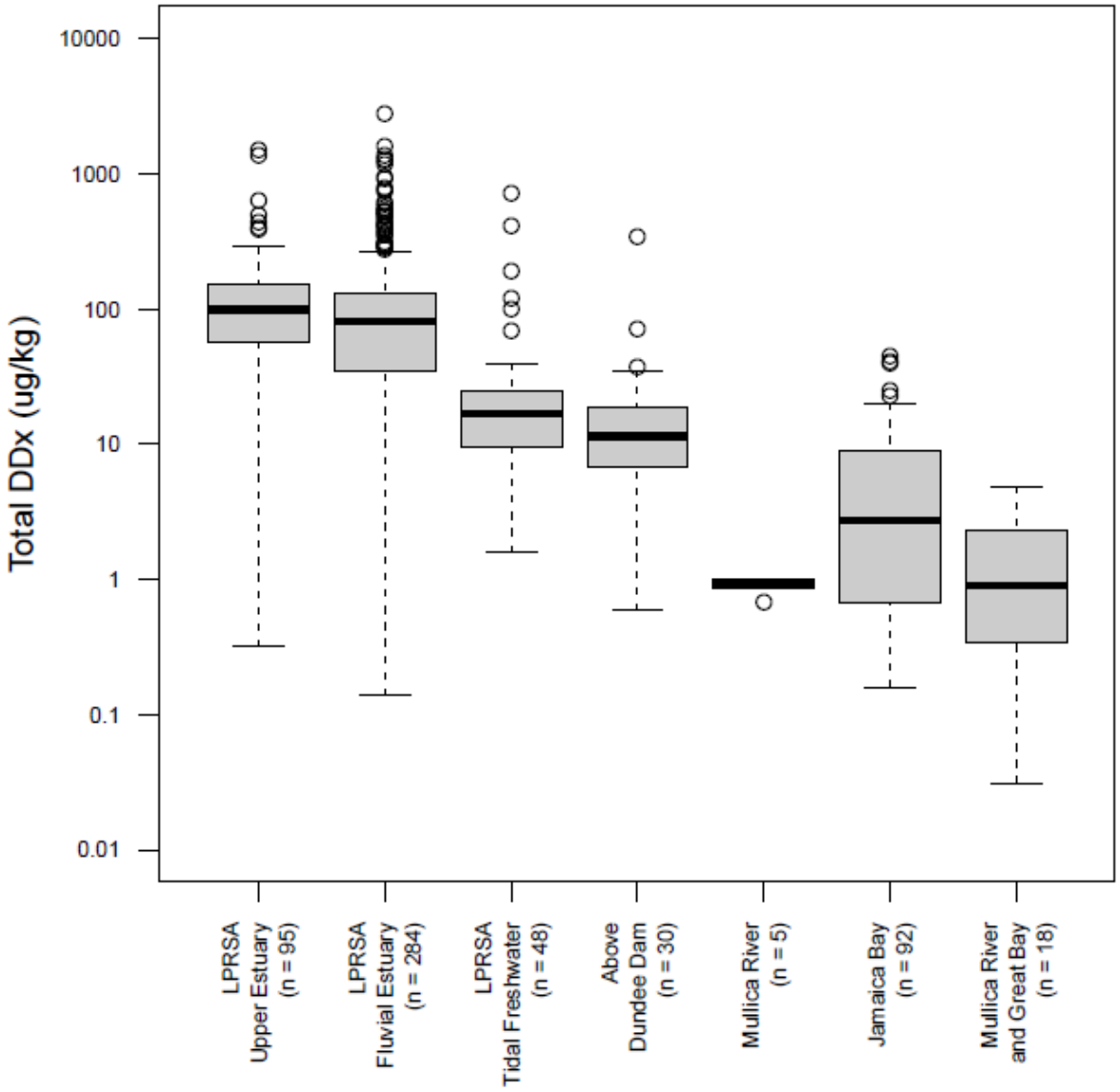
TEQ – toxic equivalent
n – sample size

Figure 3-8.PCDD/PCDF TEQ-mammal in LPRSA and reference area sediments



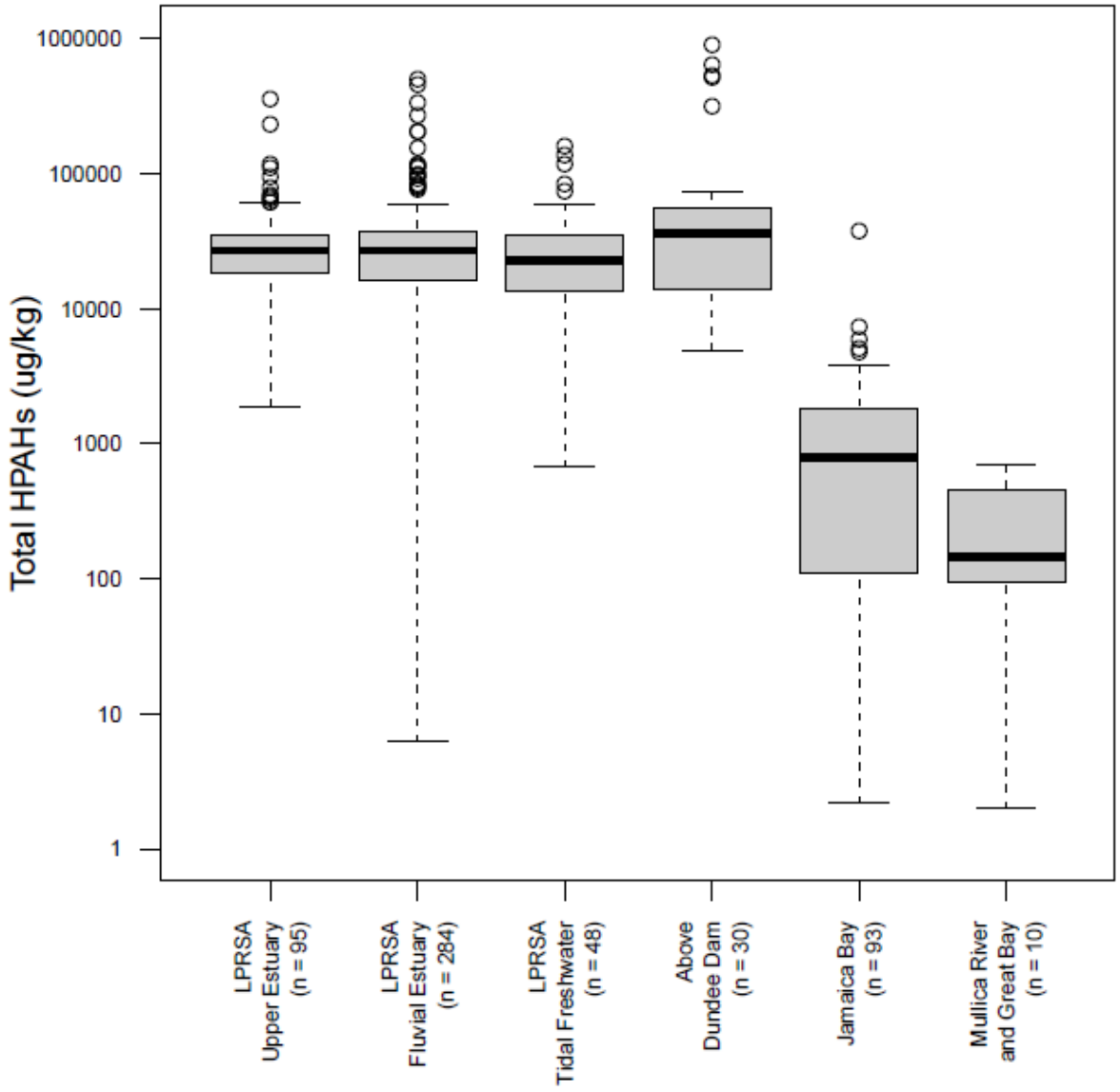
n – sample size

Figure 3-9.Selenium in LPRSA and reference area sediments



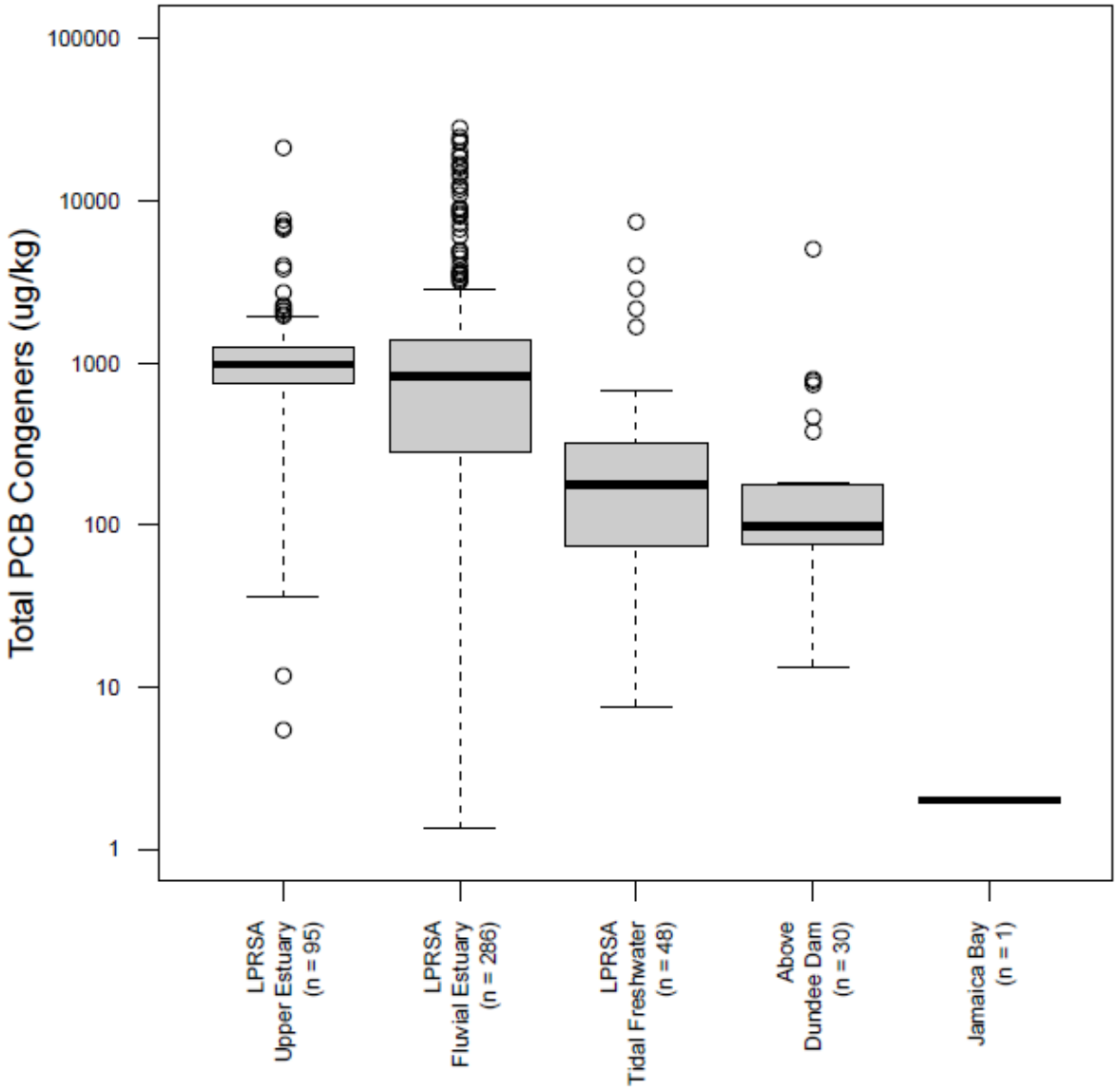
n – sample size

Figure 3-10. Total DDx in LPRSA and reference area sediments



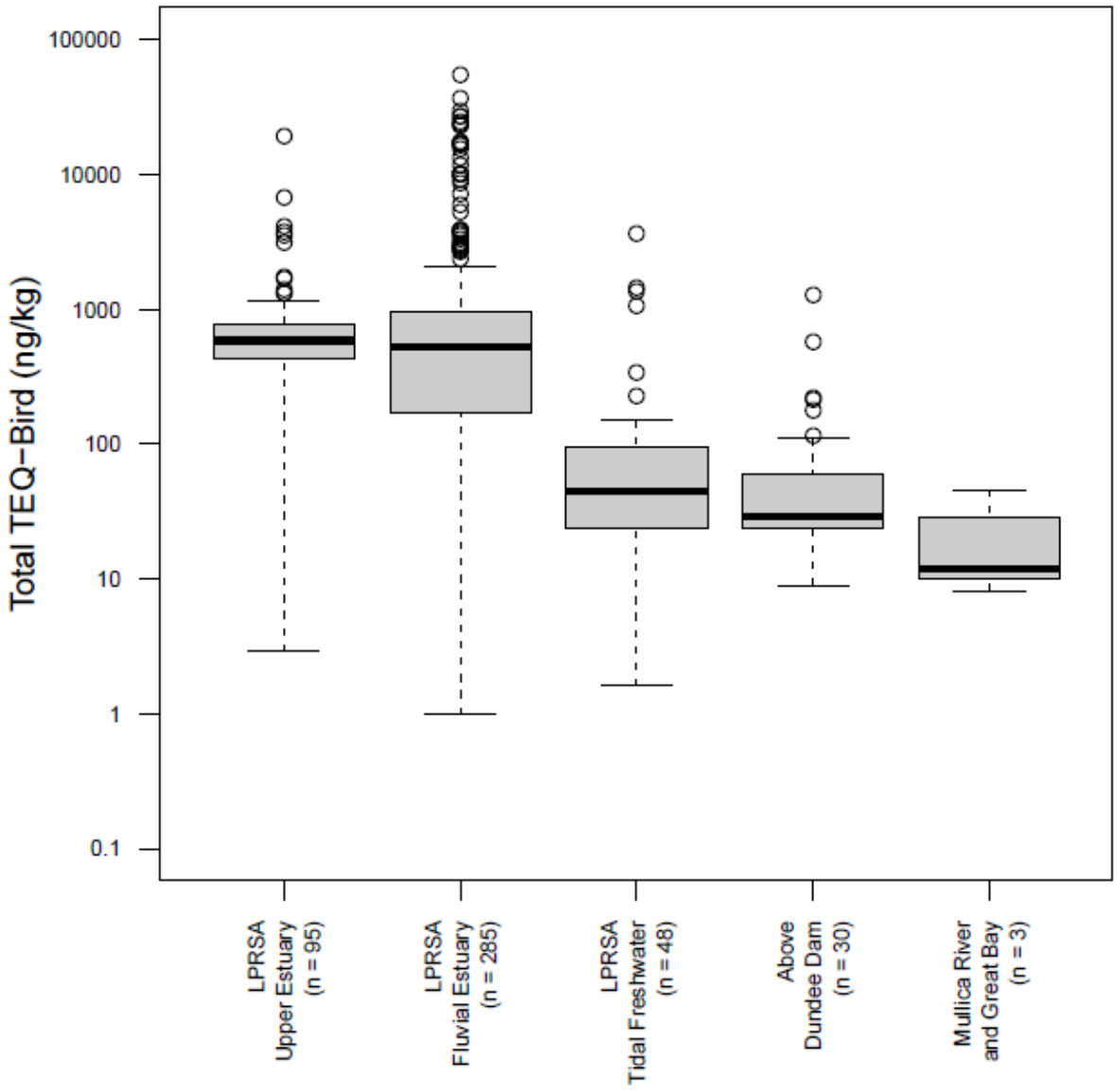
n – sample size

Figure 3-11. Total HPAHs in LPRSA and reference area sediments



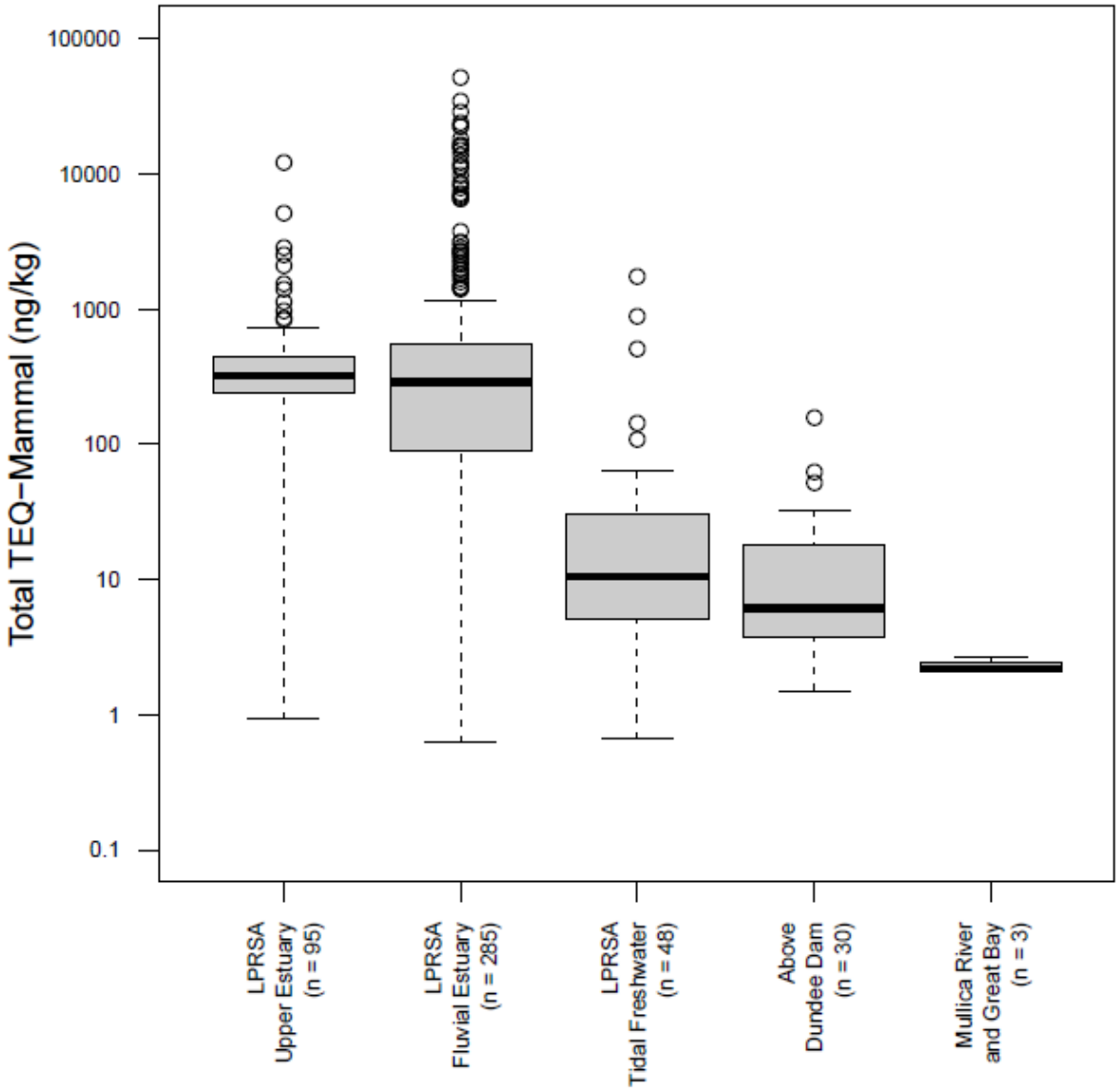
n – sample size

Figure 3-12. Total PCB Congeners in LPRSA and reference area sediments



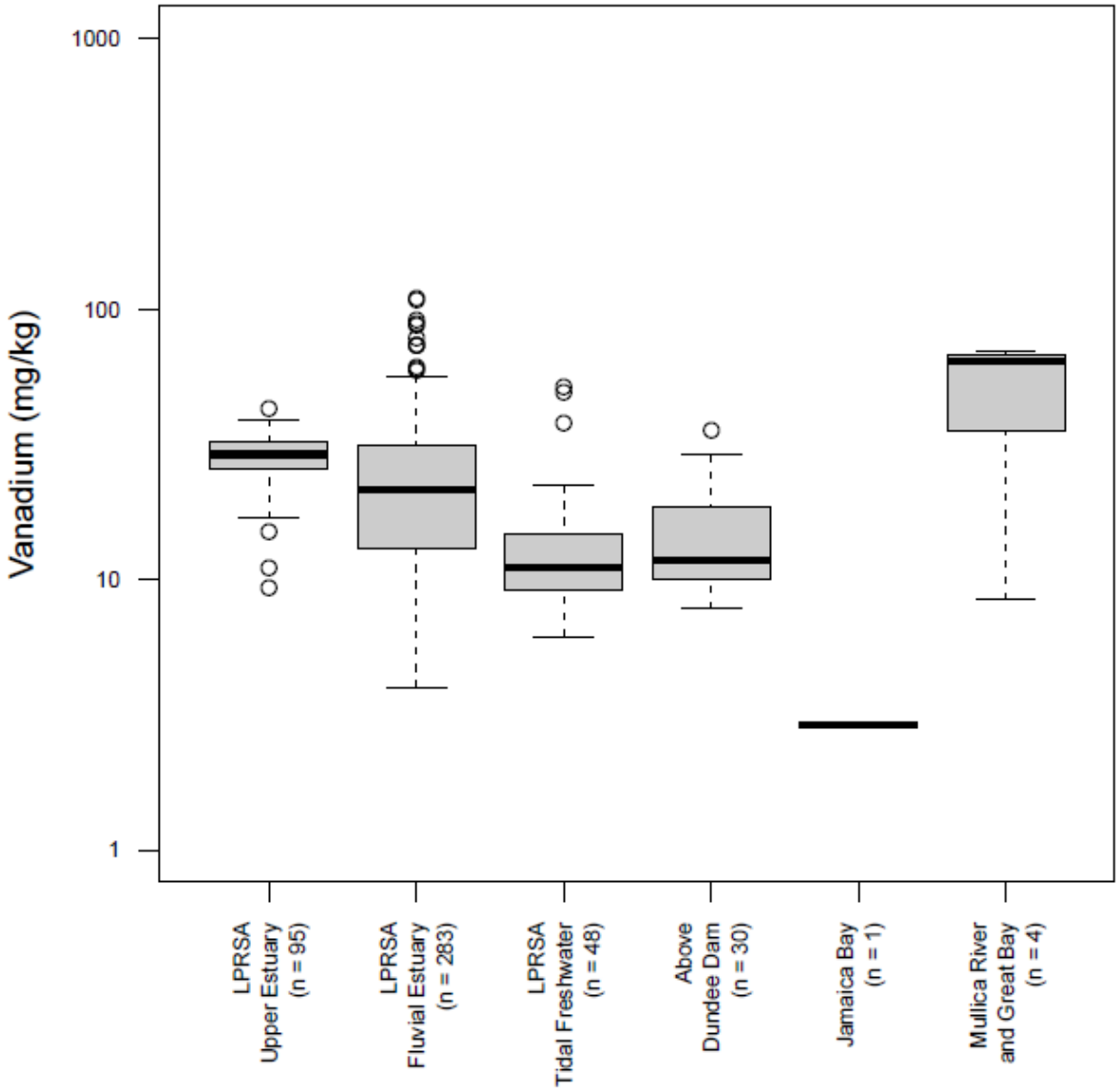
TEQ – toxic equivalent
n – sample size

Figure 3-13. Total TEQ-bird in LPRSA and reference area sediments



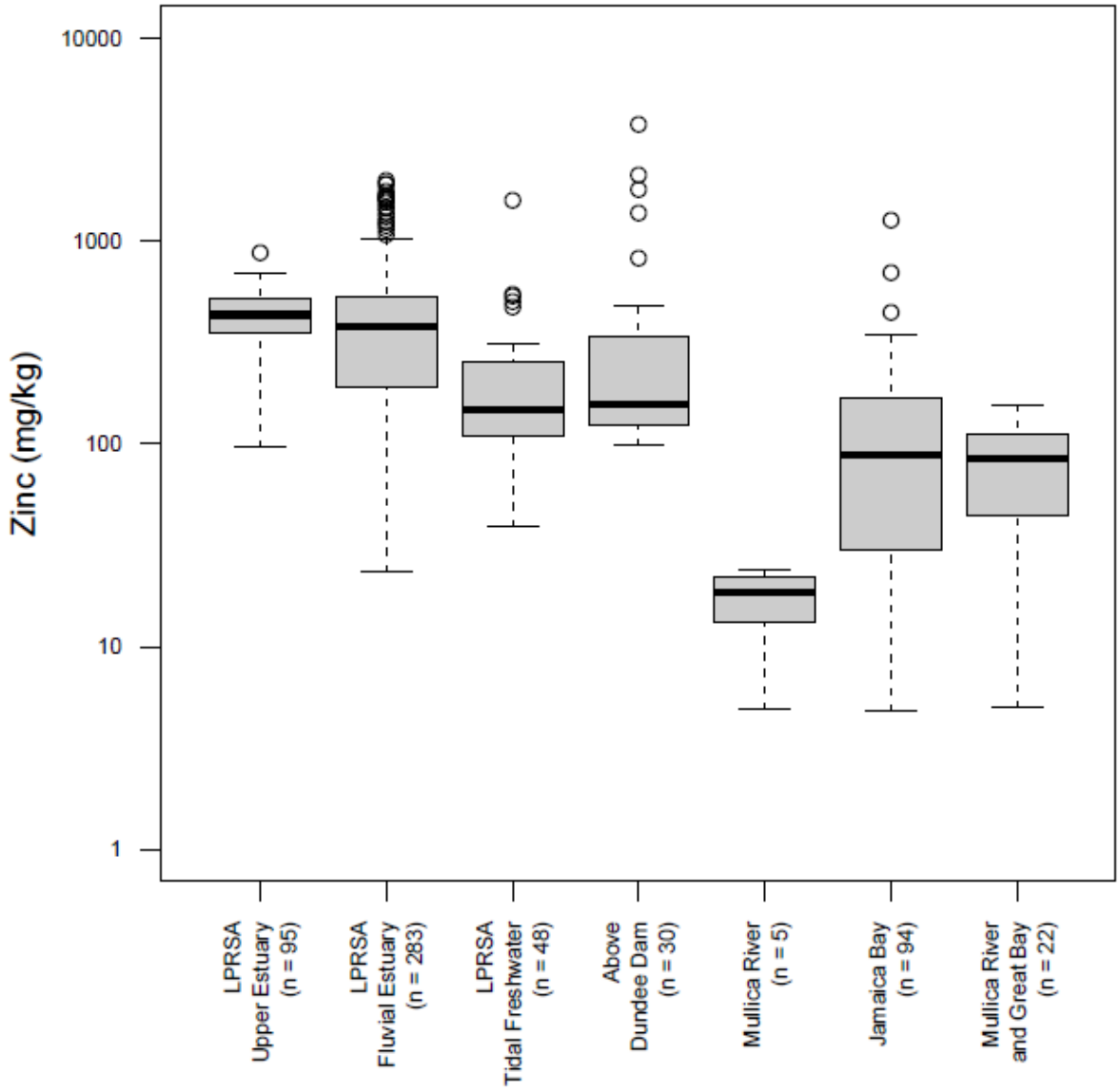
TEQ – toxic equivalent
n – sample size

Figure 3-14. Total TEQ-mammal in LPRSA and reference area sediments



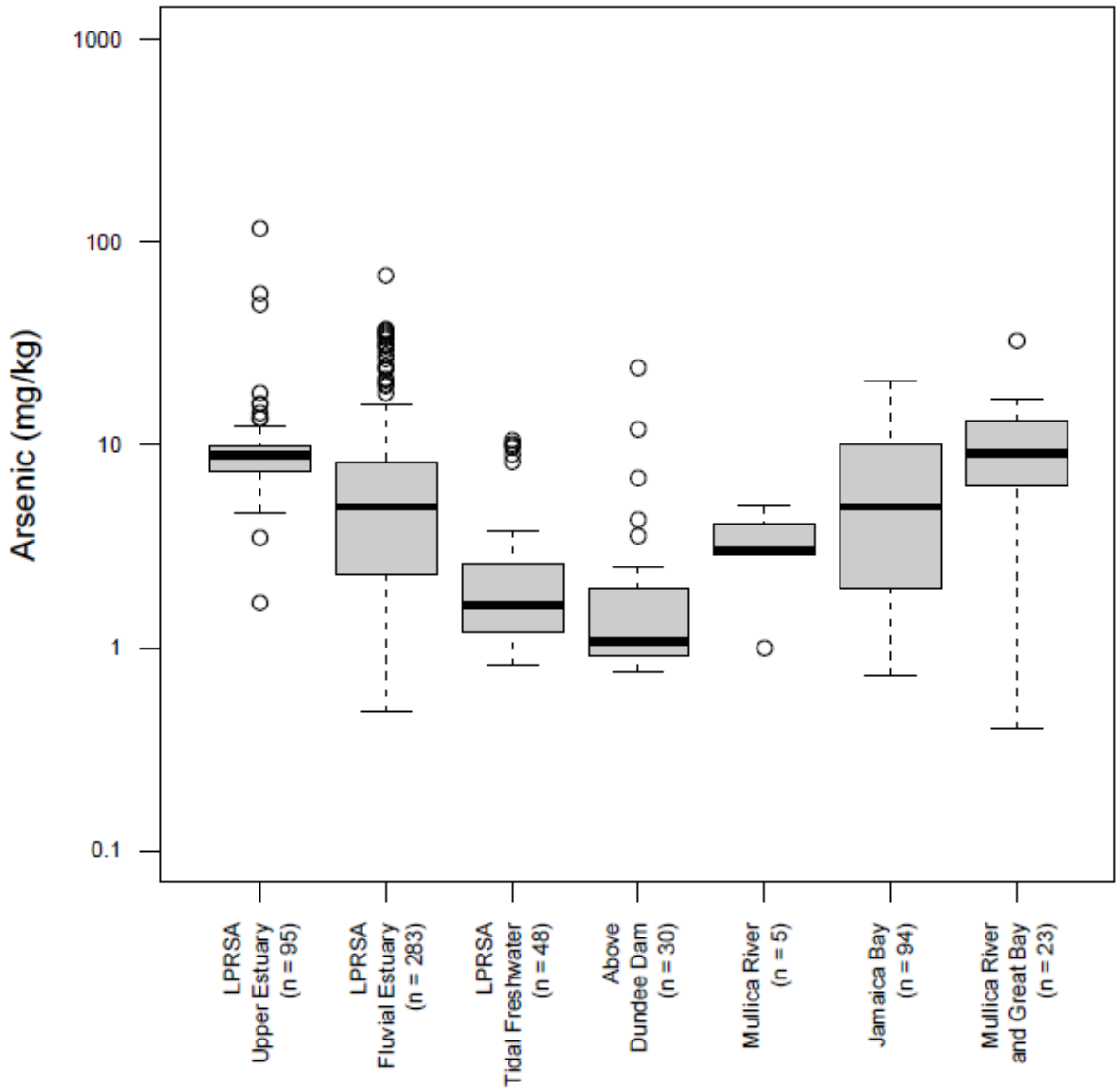
n – sample size

Figure 3-15. Vanadium in LPRSA and reference area sediments



n – sample size

Figure 3-16. Zinc in LPRSA and reference area sediments



n – sample size

Figure 3-17. Arsenic in LPRSA and reference area sediments

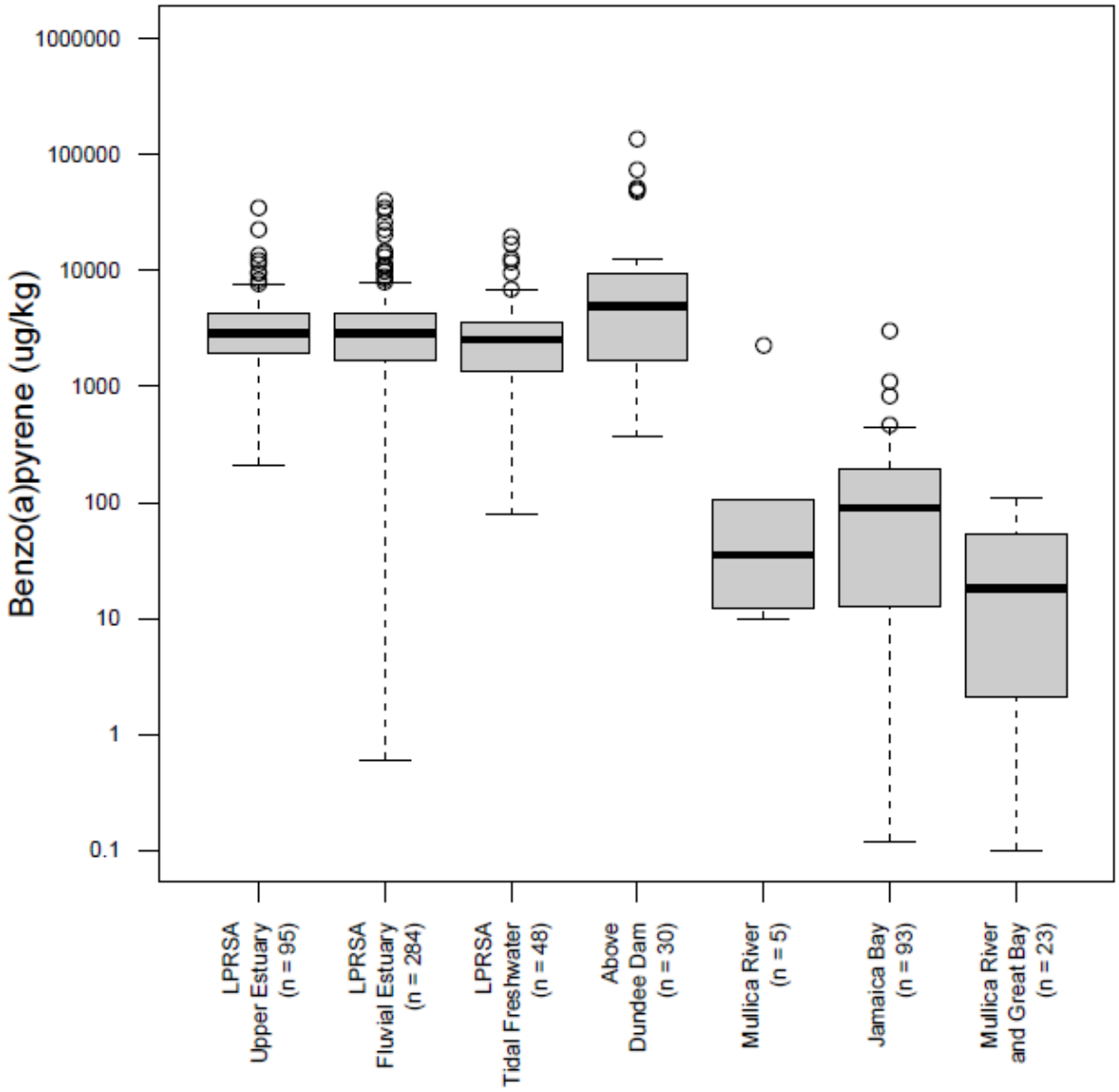


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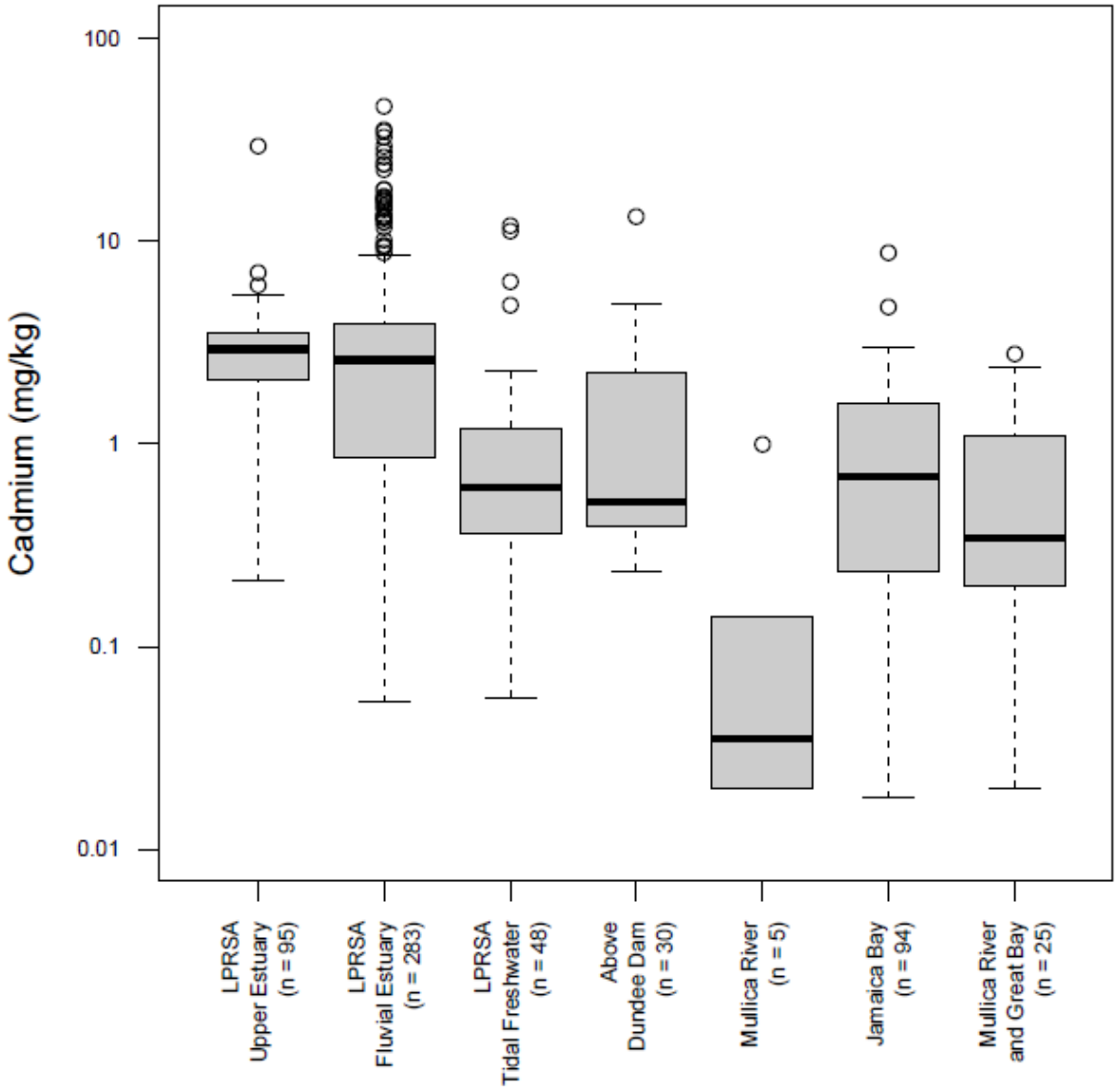
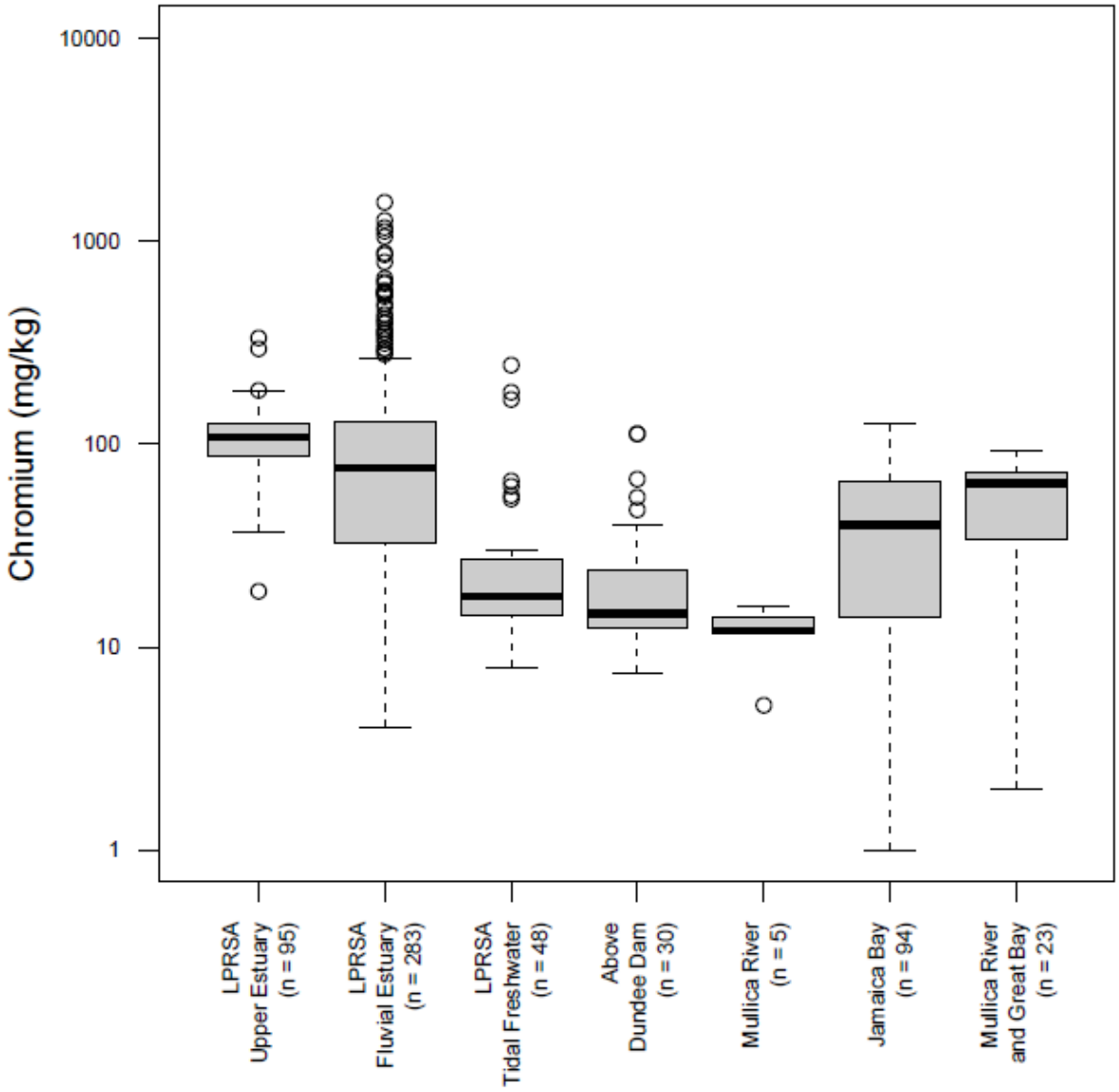
Figure 3-18. Benzo(a)pyrene in LPRSA and reference area sediments



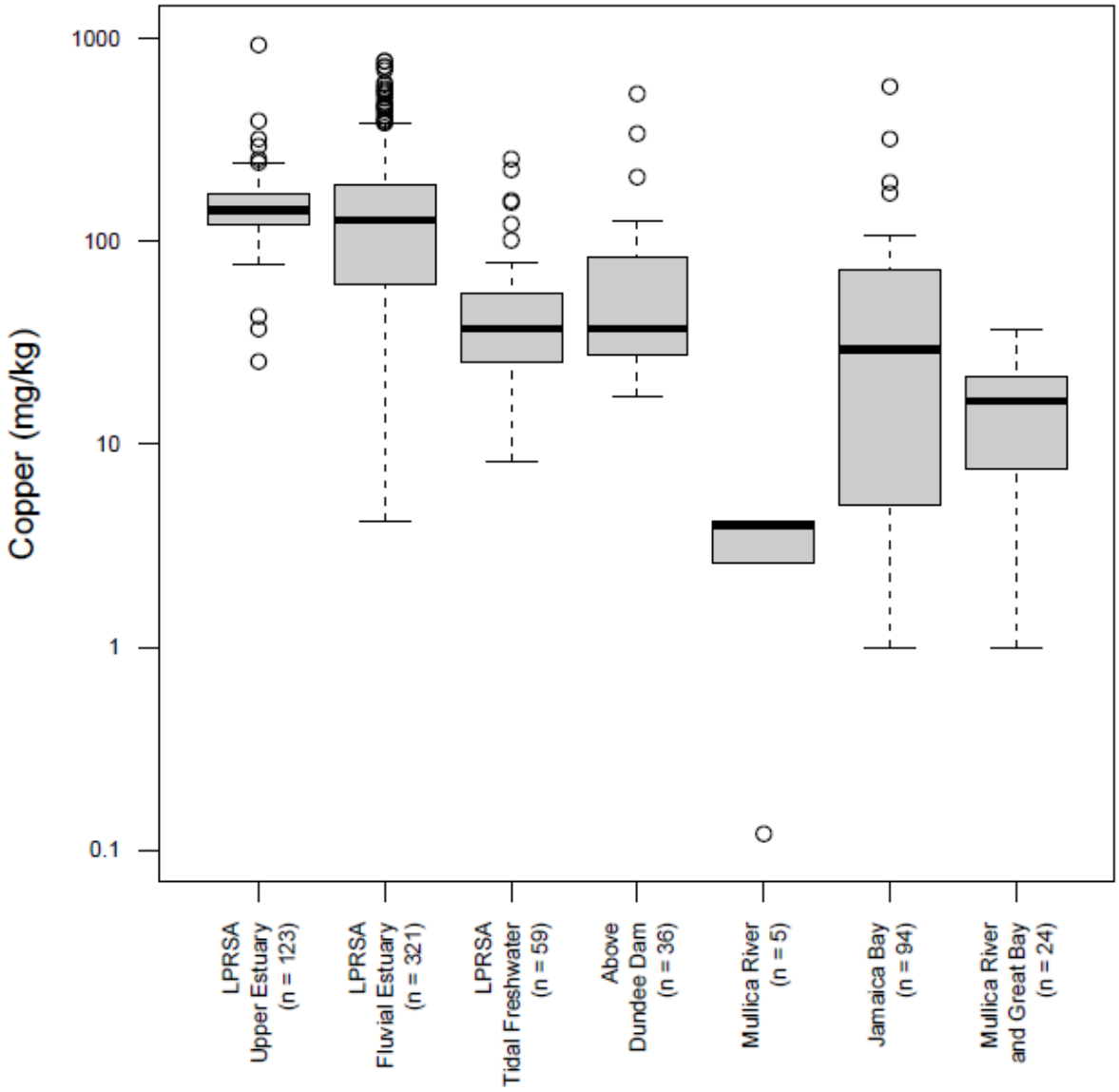
n – sample size

Figure 3-19. Cadmium in LPRSA and reference area sediments



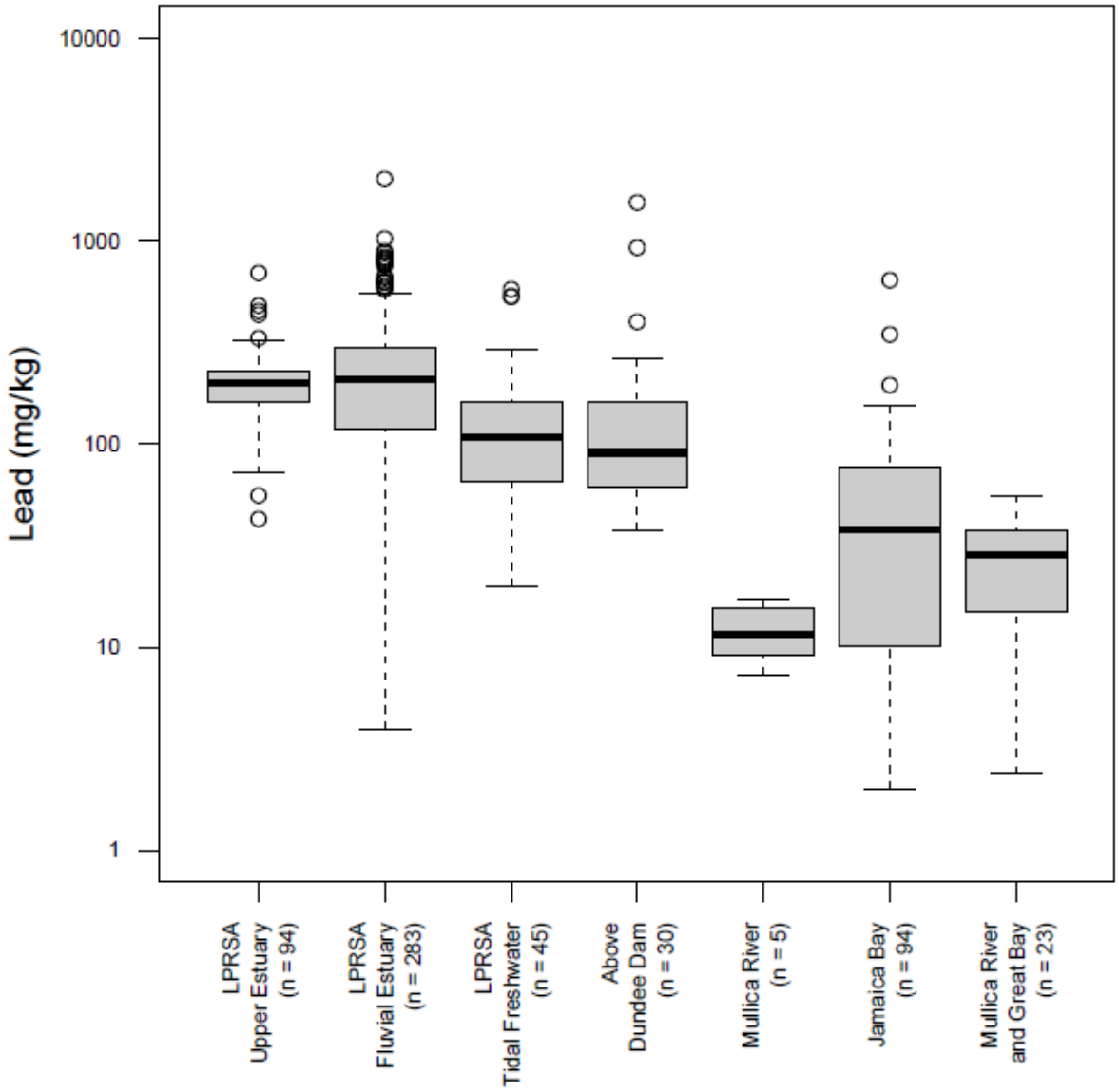
n – sample size

Figure 3-20. Chromium in LPRSA and reference area sediments



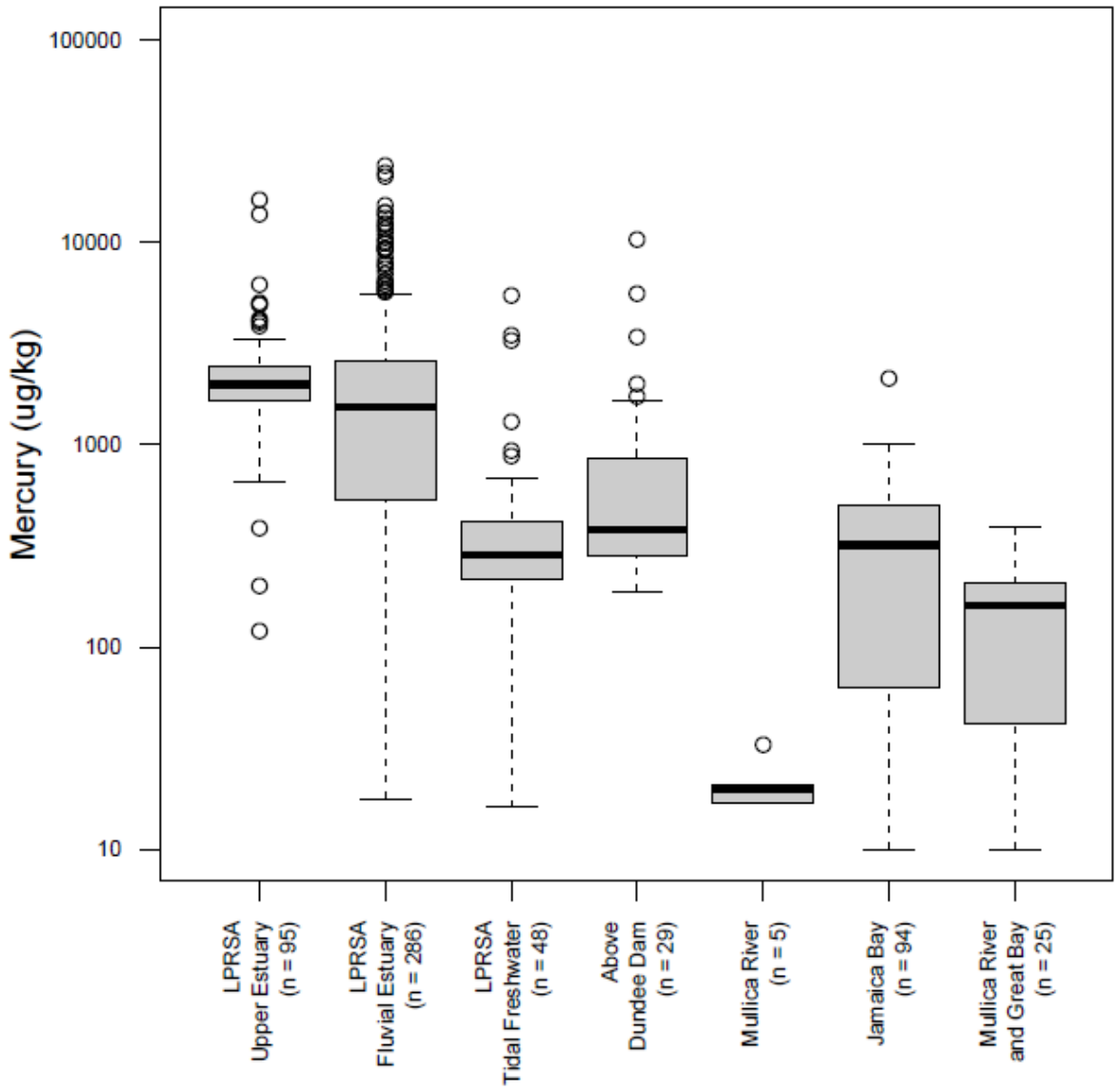
n – sample size

Figure 3-21. Copper in LPRSA and reference area sediments



n – sample size

Figure 3-22. Lead in LPRSA and reference area sediments



n – sample size

Figure 3-23. Mercury in LPRSA and reference area sediments

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BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	SQT station	C1-Benzanthracene/chrysenes µg/kg			C1-Dibenzothiophenes µg/kg			C1-Fluorenes µg/kg		
									Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	No	25000	J	Yes	5300	J	Yes	6200	J	Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	No	740	J	Yes	120	J	Yes	120	J	Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	No	1500	J	Yes	250	J	Yes	320	J	Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	No	2600	J	Yes	1000	J	Yes	630	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	No	58000	J	Yes	18000	J	Yes	37000	J	Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	No	50000	J	Yes	30000	J	Yes	60000	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	No	3220		Yes	414		Yes	409		Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	No	12800		Yes	1830		Yes	1940		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	No	9530		Yes	1210		Yes	1280		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	No	4820		Yes	843		Yes	953		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	No	4160		Yes	660		Yes	694	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	No	3730		Yes	662		Yes	896		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	No	626		Yes	79.7		Yes	96.9		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	1170		Yes	137		Yes	127		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	15200		Yes	1840		Yes	1710		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	1940		Yes	210		Yes	197		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	13200		Yes	2100		Yes	2160		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	No	1710		Yes	370		Yes	495		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	No	219		Yes	27.2		Yes	28.1		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	No	4400		Yes	955		Yes	1120		Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	No	4020		Yes	575		Yes	685		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	No	2210		Yes	240		Yes	275		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	No	1380		Yes	455		Yes	385		Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	No	65500	J	Yes	36300	J	Yes	46700	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	No	1310		Yes	217		Yes	330		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	No	692		Yes	100		Yes	105		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	98000	J	Yes	47600	J	Yes	63900	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	5190		Yes	867		Yes	746		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	1670		Yes	340		Yes	344		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	616	J	Yes	117		Yes	101		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	1070		Yes	206		Yes	174		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	2020		Yes	338		Yes	320		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	4400	J	Yes	853	J	Yes	914	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	22800	J	Yes	7040	J	Yes	8190	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	187		Yes	35.8		Yes	27.2		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	30000	J	Yes	14600	J	Yes	22200	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	288		Yes	46.2		Yes	58.2		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	524		Yes	106		Yes	111		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	1540	J	Yes	199	J	Yes	132	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	2240		Yes	562		Yes	542		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	242		Yes	40.1		Yes	30.5		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	1150		Yes	303		Yes	289		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	708		Yes	132		Yes	96		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	888	J	Yes	276		Yes	215	J	Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	226		Yes	30.9		Yes	24.7		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	257		Yes	48		Yes	56.3		Yes

C1-Phenanthrene/anthracenes			C1-Pyrene/fluoranthenes			C2-Benzanthracene/chrysenes			C2-Dibenzothiophenes			C2-Fluorenes			C2-Naphthalenes			C2-Phenanthrene/anthracenes			C3-Benzanthracene/chrysenes		
µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
43000	J	Yes	25000	J	Yes	13000	J	Yes	7200	J	Yes	6400	J	Yes	12000	J	Yes	33000	J	Yes	4600	J	Yes
680	J	Yes	1000	J	Yes	420	J	Yes	210	J	Yes	140	J	Yes	200	J	Yes	750	J	Yes	160	J	Yes
1800	J	Yes	2100	J	Yes	840	J	Yes	360	J	Yes	350	J	Yes	520	J	Yes	1600	J	Yes	320	J	Yes
5200	J	Yes	3600	J	Yes	1500	J	Yes	1400	J	Yes	770	J	Yes	1600	J	Yes	4300	J	Yes	630	J	Yes
230000	J	Yes	68000	J	Yes	25000	J	Yes	15000	J	Yes	27000	J	Yes	110000	J	Yes	110000	J	Yes	7900	J	Yes
300000	J	Yes	140000	J	Yes	28000	J	Yes	30000	J	Yes	47000	J	Yes	220000	J	Yes	170000	J	Yes	10000	J	Yes
2400		Yes	4330		Yes	1920		Yes	781		Yes	624		Yes	528		Yes	2360		Yes	1060		Yes
11300		Yes	19200		Yes	7280		Yes	3620		Yes	3630		Yes	1760		Yes	11600		Yes	3860		Yes
7300		Yes	13700		Yes	5580		Yes	2510		Yes	2280		Yes	1480		Yes	7780		Yes	2960		Yes
4550		Yes	6980		Yes	2820		Yes	1340		Yes	1270		Yes	1470		Yes	4210		Yes	1570		Yes
3820		Yes	5570		Yes	2700		Yes	1100		Yes	983	J	Yes	1190	J	Yes	3620		Yes	1380		Yes
3980		Yes	6220		Yes	2160		Yes	1200		Yes	1210		Yes	1810		Yes	3800		Yes	1140		Yes
483		Yes	913		Yes	346		Yes	108		Yes	122		Yes	111		Yes	399		Yes	202		Yes
941		Yes	2120		Yes	743		Yes	292		Yes	242		Yes	170		Yes	1050		Yes	463		Yes
10800		Yes	27800		Yes	9810		Yes	5000		Yes	4650		Yes	1320		Yes	16400		Yes	5530		Yes
1490		Yes	3320		Yes	1310		Yes	437		Yes	360		Yes	268		Yes	1600		Yes	837		Yes
15100		Yes	26200		Yes	7400		Yes	4080		Yes	4350		Yes	1440		Yes	14200		Yes	4280		Yes
2260		Yes	3010		Yes	890		Yes	396		Yes	486		Yes	742		Yes	1440		Yes	481		Yes
130		Yes	292		Yes	134		Yes	41.6		Yes	44.7		Yes	33.9		Yes	135		Yes	80.7		Yes
4530		Yes	6800		Yes	2760		Yes	1570		Yes	1490		Yes	1640		Yes	4440		Yes	1510		Yes
4180		Yes	6500		Yes	2230		Yes	990		Yes	988		Yes	863		Yes	3400		Yes	1180		Yes
1150		Yes	2740		Yes	1530		Yes	498		Yes	466		Yes	616		Yes	1490		Yes	819		Yes
2060		Yes	2270		Yes	880		Yes	632		Yes	496		Yes	706		Yes	1800		Yes	460		Yes
211000	J	Yes	144000	J	Yes	37600	J	Yes	39300	J	Yes	42000	J	Yes	148000	J	Yes	116000	J	Yes	20000	J	Yes
1630		Yes	2350		Yes	645		Yes	259		Yes	307		Yes	668		Yes	1000		Yes	325		Yes
621		Yes	1020		Yes	486		Yes	156		Yes	148		Yes	159		Yes	505		Yes	354		Yes
313000	J	Yes	251000	J	Yes	57800	J	Yes	53500	J	Yes	71200	J	Yes	159000	J	Yes	189000	J	Yes	31200	J	Yes
5210		Yes	10100		Yes	3300		Yes	1880		Yes	1600		Yes	698		Yes	6140		Yes	1890		Yes
2000		Yes	3210		Yes	1030		Yes	612		Yes	608		Yes	504		Yes	2000		Yes	554		Yes
584	J	Yes	1120		Yes	396	J	Yes	205	J	Yes	202	J	Yes	118		Yes	649	J	Yes	218	J	Yes
1040		Yes	1980		Yes	668		Yes	351		Yes	271		Yes	158		Yes	1120		Yes	419		Yes
2500		Yes	4220		Yes	1150		Yes	527		Yes	499		Yes	449		Yes	2060		Yes	664		Yes
5570	J	Yes	8760	J	Yes	2920	J	Yes	1430	J	Yes	1190	J	Yes	3330	J	Yes	4800	J	Yes	2110	J	Yes
41900	J	Yes	42000	J	Yes	15100	J	Yes	9420	J	Yes	10200	J	Yes	14900	J	Yes	32200	J	Yes	8330	J	Yes
175		Yes	358		Yes	116		Yes	51.1		Yes	45		Yes	25.1		Yes	162		Yes	98.5		Yes
105000	J	Yes	78700	J	Yes	16900	J	Yes	13900	J	Yes	19000	J	Yes	71100	J	Yes	54800	J	Yes	9480	J	Yes
345		Yes	624		Yes	171		Yes	54.5		Yes	65.7		Yes	102		Yes	246		Yes	139		Yes
644		Yes	1180		Yes	304		Yes	178		Yes	188		Yes	91.5		Yes	616		Yes	169		Yes
1420	J	Yes	2900	J	Yes	1030	J	Yes	337	J	Yes	301	J	Yes	247	J	Yes	1290	J	Yes	1090	J	Yes
3200		Yes	4600		Yes	1320		Yes	894		Yes	916		Yes	320		Yes	2950		Yes	733		Yes
331		Yes	459		Yes	129		Yes	54		Yes	44.7		Yes	33.3		Yes	229		Yes	99.3		Yes
2030		Yes	2860		Yes	637		Yes	382		Yes	380		Yes	303		Yes	1470		Yes	407		Yes
890		Yes	1510		Yes	387		Yes	186		Yes	130		Yes	89		Yes	643		Yes	299		Yes
1610	J	Yes	2000	J	Yes	510		Yes	421		Yes	381		Yes	156	J	Yes	1330		Yes	291	J	Yes
275		Yes	382		Yes	128		Yes	38.2		Yes	35		Yes	28		Yes	189		Yes	91.1		Yes
349		Yes	563		Yes	153		Yes	68.4		Yes	69.4		Yes	68		Yes	275		Yes	117		Yes

C3-Dibenzothiophenes			C3-Fluorenes			C3-Naphthalenes			C3-Phenanthrene/anthracenes			C4-Benzanthracene/chrysenes			C4-Dibenzothiophenes			C4-Naphthalenes			C4-Phenanthrene/anthracenes		
µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
5100	J	Yes	4400	J	Yes	14000	J	Yes	17000	J	Yes	1400	J	Yes	1800	J	Yes	6400	J	Yes	3600	J	Yes
170	J	Yes	110	J	Yes	220	J	Yes	450	J	Yes	79	J	Yes	76	J	Yes	130	J	Yes	120	J	Yes
270	J	Yes	240	J	Yes	640	J	Yes	880	J	Yes	100	J	Yes	110	J	Yes	330	J	Yes	220	J	Yes
1100	J	Yes	720	J	Yes	2000	J	Yes	2500	J	Yes	250	J	Yes	490	J	Yes	1200	J	Yes	810	J	Yes
7400	J	Yes	13000	J	Yes	98000	J	Yes	42000	J	Yes	2200	J	Yes	2200	J	Yes	29000	J	Yes	7500	J	Yes
17000	J	Yes	22000	J	Yes	160000	J	Yes	71000	J	Yes	3100	J	Yes	5600	J	Yes	45000	J	Yes	14000	J	Yes
685		Yes	609		Yes	547		Yes	1280		Yes	382		Yes	308		Yes	414		Yes	408		Yes
2670		Yes	2650		Yes	2490		Yes	5500		Yes	1180		Yes	969		Yes	2300		Yes	1510		Yes
2040		Yes	1770		Yes	1670		Yes	3970		Yes	896		Yes	764		Yes	1320		Yes	1170		Yes
1060		Yes	1000		Yes	1590		Yes	2110		Yes	583		Yes	462		Yes	953		Yes	662		Yes
957		Yes	792	J	Yes	1190	J	Yes	2050		Yes	457		Yes	419		Yes	802	J	Yes	681		Yes
868		Yes	965		Yes	1530		Yes	1780		Yes	379		Yes	322		Yes	875		Yes	511		Yes
90.1		Yes	89.2		Yes	123		Yes	199		Yes	73.1		Yes	45.9		Yes	75.9		Yes	69.3		Yes
289		Yes	245		Yes	165		Yes	610		Yes	211		Yes	156		Yes	129		Yes	220		Yes
4380		Yes	3650		Yes	2130		Yes	9550		Yes	1790		Yes	1730		Yes	2350		Yes	3160		Yes
443		Yes	416		Yes	265		Yes	959		Yes	401		Yes	230		Yes	212		Yes	354		Yes
3410		Yes	3970		Yes	2520		Yes	7430		Yes	1500		Yes	1370		Yes	2230		Yes	2380		Yes
264		Yes	294		Yes	704		Yes	603		Yes	167		Yes	111		Yes	324		Yes	174		Yes
40.3		Yes	41.6		Yes	33.2		Yes	77.3		Yes	37.5		Yes	21		Yes	26.2		Yes	33.2		Yes
1350		Yes	1180		Yes	2070		Yes	2430		Yes	553		Yes	655		Yes	1320		Yes	894		Yes
793		Yes	813		Yes	863		Yes	1650		Yes	405		Yes	333		Yes	626		Yes	487		Yes
535		Yes	402		Yes	628		Yes	1170		Yes	290		Yes	246		Yes	403		Yes	466		Yes
444		Yes	351		Yes	642		Yes	822		Yes	160		Yes	160		Yes	353		Yes	245		Yes
23300	J	Yes	22700	J	Yes	89500	J	Yes	44500	J	Yes	6560	J	Yes	8230	J	Yes	36200	J	Yes	12700	J	Yes
188		Yes	207		Yes	438		Yes	424		Yes	147		Yes	83.6		Yes	197		Yes	123		Yes
139		Yes	151		Yes	149		Yes	266		Yes	169		Yes	80.8		Yes	105		Yes	122		Yes
34300	J	Yes	36100	J	Yes	119000	J	Yes	78000	J	Yes	11300	J	Yes	13200	J	Yes	54800	J	Yes	24900	J	Yes
1590		Yes	1410		Yes	970		Yes	3300		Yes	682		Yes	674		Yes	841		Yes	1010		Yes
477		Yes	425		Yes	527		Yes	992		Yes	186		Yes	203		Yes	352		Yes	309		Yes
177	J	Yes	172	J	Yes	151		Yes	397	J	Yes	90.8	J	Yes	91.2	J	Yes	128	J	Yes	136	J	Yes
307		Yes	266		Yes	226		Yes	603		Yes	202		Yes	160		Yes	170		Yes	216		Yes
393		Yes	427		Yes	389		Yes	952		Yes	278		Yes	170		Yes	281		Yes	270		Yes
1410	J	Yes	1250	J	Yes	1660	J	Yes	2620	J	Yes	1070	J	Yes	805	J	Yes	891	J	Yes	1270	J	Yes
6680	J	Yes	5990	J	Yes	14000	J	Yes	15000	J	Yes	2850	J	Yes	2740	J	Yes	6920	J	Yes	4800	J	Yes
42		Yes	48.8		Yes	35.9		Yes	82.3		Yes	64.7		Yes	23.5		Yes	27		Yes	33.9		Yes
8420	J	Yes	8560	J	Yes	40300	J	Yes	20700	J	Yes	3380	J	Yes	3220	J	Yes	13500	J	Yes	7080	J	Yes
50.2		Yes	60.7		Yes	73.4		Yes	119		Yes	77.1		Yes	28.9		Yes	40.9		Yes	45.1		Yes
129		Yes	165		Yes	148		Yes	277		Yes	75.5		Yes	52.6		Yes	116		Yes	81.6		Yes
370	J	Yes	663	J	Yes	225	J	Yes	696	J	Yes	785	J	Yes	244	J	Yes	213	J	Yes	423	J	Yes
614		Yes	608		Yes	713		Yes	1340		Yes	280		Yes	242		Yes	542		Yes	391		Yes
43.9		Yes	88.2		Yes	36.8		Yes	102		Yes	60		Yes	22		Yes	26.8		Yes	35.7		Yes
253		Yes	355		Yes	332		Yes	604		Yes	185		Yes	95.2		Yes	213		Yes	166		Yes
152		Yes	236		Yes	116		Yes	308		Yes	162		Yes	76.2		Yes	84.5		Yes	114		Yes
257		Yes	272		Yes	336	J	Yes	533		Yes	121	J	Yes	103		Yes	242		Yes	145		Yes
32.3		Yes	61.5		Yes	30.8		Yes	89.4		Yes	54.2		Yes	16.9		Yes	20.5		Yes	35.9		Yes
55.5		Yes	54.4		Yes	71.1		Yes	129		Yes	68.4		Yes	28.5		Yes	46		Yes	43.4		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	SQT station	Monobutyltin µg/kg			Dibutyltin µg/kg			Tributyltin µg/kg			Tetrabutyltin µg/kg		
									Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595078.09	747202.48	01-Oct-08	08A-0098-C2AS	Yes	No	1.7	J	Yes	2.1	J	Yes	2.3	J	Yes	7.1	U	No
2008 LRC Program	08A-099	17.5	594943.33	747038.85	01-Oct-08	08A-0099-C2AS	Yes	No	7	U	No	3.4	J	Yes	7	U	No	7	U	No
2008 LRC Program	08A-100	17.61	594727.78	747679.04	30-Sep-08	08A-0100-C2AS	Yes	No	6.7	U	No	6.7	U	No	6.7	U	No	6.7	U	No
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	No	10	J	Yes	22		Yes	4.9	J	Yes	9.1	U	No
2008 LRC Program	08A-103	17.79	594472.88	748315.3	30-Sep-08	08A-0103-C2AS	Yes	No	2.6	J	Yes	8.6	J	Yes	8.7	U	No	8.7	U	No
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	No	3.1	J	Yes	7	J	Yes	11	UJ	No	11	UJ	No
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	No	2.1	J	Yes	12	J	Yes	8.4	J	Yes	6.4	U	No
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	No	16	J	Yes	1300	J	Yes	5.7	J	Yes	5.4	U	No
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	No	1.4	UJ	No	3		Yes	1.4	J	Yes	1.4	U	No
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	No	3.5	J	Yes	9.2		Yes	7.5	J	Yes	6	U	No
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	No	4.3	J	Yes	4.6	J	Yes	3.2	J	Yes	6.1	U	No
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	No	5.1	UJ	No	5.1	U	No	5.1	UJ	No	5.1	U	No
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	No	5	UJ	No	5	U	No	5	UJ	No	5	U	No
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	2.4	J	Yes	3.8	J	Yes	1.1	J	Yes	1.4	U	No
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	14	J	Yes	19	J	Yes	17	J	Yes	17	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	2.7	J	Yes	3.8	J	Yes	1.8	J	Yes	1.4	U	No
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	1.2	UJ	No	1.8	J	Yes	1.1	J	Yes	1.2	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	No	4.8	UJ	No	4.8	U	No	4.8	UJ	No	4.8	U	No
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	No	2.3	J	Yes	5.4	U	No	5.4	UJ	No	5.4	U	No
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	No	7.6	UJ	No	7.6	U	No	7.6	UJ	No	7.6	U	No
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	No	6	UJ	No	4.1	J	Yes	6	UJ	No	6	U	No
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	No	2.4	J	Yes	2.3	J	Yes	4.7	UJ	No	4.7	U	No
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	No	1.9	J	Yes	2	J	Yes	5	UJ	No	5	U	No
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	No	6	J	Yes	7.4	J	Yes	11	UJ	No	11	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	No	4.6	J	Yes	2.7	J	Yes	5.2	UJ	No	5.2	U	No
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	No	3.5	J	Yes	4.5	J	Yes	5.3	UJ	No	5.3	U	No
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	2.9	UJ	No	2.9	UJ	No	2.9	UJ	No	2.9	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	1.4	UJ	No	1.4	UJ	No	1.4	UJ	No	1.4	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	1.1	J	Yes	0.84	J	Yes	1.2	UJ	No	1.2	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	2.2	UJ	No	1	J	Yes	2.2	UJ	No	2.2	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	1.9	J	Yes	1.7	J	Yes	2.8	UJ	No	2.8	U	No
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	2	J	Yes	1.3	J	Yes	2.6	UJ	No	2.6	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	5.6	J	Yes	8.2	J	Yes	3.3	J	Yes	6	U	No
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	2.5	J	Yes	3.8	J	Yes	4.7	UJ	No	4.7	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	0.44	J	Yes	0.9	J	Yes	1.1	UJ	No	1.1	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	4.9	UJ	No	2.4	J	Yes	4.9	UJ	No	4.9	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	1.3	UJ	No	1.3	UJ	No	1.3	UJ	No	1.3	UJ	No
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	1.2	UJ	No	1.2	UJ	No	1.2	UJ	No	1.2	UJ	No
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	2.5	J	Yes	20	J	Yes	7.2	UJ	No	7.2	UJ	No
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	1.7	J	Yes	1.7	J	Yes	2.6	U	No	2.6	UJ	No
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	1.9	J	Yes	1.8	J	Yes	2.2	U	No	2.2	U	No
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	1.1	J	Yes	1.9	J	Yes	2.4	U	No	2.4	U	No
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	2.9	J	Yes	4.3		Yes	2.3	J	Yes	3.2	U	No
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	2.2	UJ	No	2.2	U	No	2.2	U	No	2.2	U	No
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	0.75	NJ	Yes	2.2	U	No	2.2	U	No	2.2	U	No
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	1.1	UJ	No	1.1	UJ	No	1.1	U	No	1.1	UJ	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	SQT Station	Percent moisture % Value	Qual	Detect	Total organic carbon % Value	Qual	Detect	Percent solids % Value	Qual	Detect	pH pH Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	No	32		Yes				68		Yes			
2008 LRC Program	08A-098	17.5	595078.09	747202.48	01-Oct-08	08A-0098-C2AS	Yes	No				9.73	J	Yes						
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	No	26.4		Yes				74.78		Yes			
2008 LRC Program	08A-099	17.5	594943.33	747038.85	01-Oct-08	08A-0099-C2AS	Yes	No	25.3		Yes	2.43	J	Yes	74.7		Yes			
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	No	21.8		Yes				79.96		Yes			
2008 LRC Program	08A-100	17.61	594727.78	747679.04	30-Sep-08	08A-0100-C2AS	Yes	No	26.6		Yes	4.33		Yes	73.4		Yes			
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes	No	24.77		Yes				75.23		Yes			
2008 LRC Program	08A-100	17.61	594727.14	747677.65	30-Sep-08	08A-0100-G3AS	Yes	No										6.9		Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	No	59.4		Yes				40.41		Yes			
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	No	44.8		Yes	3.76	J	Yes	54.7		Yes			
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	No	32.6		Yes				68.19		Yes			
2008 LRC Program	08A-103	17.79	594472.88	748315.3	30-Sep-08	08A-0103-C2AS	Yes	No	46		Yes	7.41		Yes	54.1		Yes			
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	No	59.1		Yes				41.83		Yes			
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	No	55.5		Yes	5.68		Yes	42.7		Yes			
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	No				1.63		Yes	61.6		Yes			
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	No				2.77		Yes	77.8		Yes			
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	No				4.63		Yes	59	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	No				1.18		Yes	60.1		Yes			
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	No				3.26		Yes	51.5	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	No				0.955		Yes	83.4		Yes			
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	No				0.625		Yes	73.1		Yes			
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes				0.784		Yes	64.1		Yes			
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes				2.86		Yes	77.3		Yes			
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes				1.26		Yes	70.8		Yes			
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes				5.43		Yes	83.4		Yes			
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	No				3.55		Yes	83.8		Yes			
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	No				1.14		Yes	71.2		Yes			
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	No				3.24		Yes	44.7	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	No				6.74		Yes	69.5		Yes			
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	No				2.02		Yes	88.3		Yes			
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	No				2.61		Yes	75.7		Yes			
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	No				5.71		Yes	35.8	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	No				0.65		Yes	77.2		Yes			
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	No				1.08		Yes	74		Yes			
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes				8.4		Yes	33.1		Yes			
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes				1.25		Yes	74.2		Yes			
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes				2.95		Yes	84.8		Yes			
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes				2.03		Yes	59.3		Yes			
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes				2		Yes	68.8		Yes			
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes				2.43		Yes	69.7		Yes			
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes				4.89		Yes	30.4		Yes			
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes				4.15		Yes	35.3		Yes			
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes				0.739		Yes	88.9		Yes			
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes				6.98		Yes	34.7		Yes			
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes				0.531		Yes	79.5		Yes			
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes				1.04		Yes	89.6		Yes			
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes				5.8	J	Yes	20.9		Yes			
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes				3.44	J	Yes	68.7		Yes			
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes				0.88	J	Yes	88		Yes			
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes				2.9	J	Yes	89.6		Yes			
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes				1.42	J	Yes	63.2		Yes			

2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes				2.02	J	Yes	87.6		Yes			
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes				0.4	J	Yes	85		Yes			
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes				1.24	J	Yes	91.3		Yes			

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	SQT Station	Sieve, No. 4, percent pass			Sieve, No. 8, percent pass			Sieve, No. 10, percent pass		
									%			%			%		
									Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595078.09	747202.48	01-Oct-08	08A-0098-C2AS	Yes	No	96.5		Yes	92.2		Yes			
2008 LRC Program	08A-099	17.5	594943.33	747038.85	01-Oct-08	08A-0099-C2AS	Yes	No	99.2		Yes	99.1		Yes			
2008 LRC Program	08A-100	17.61	594727.78	747679.04	30-Sep-08	08A-0100-C2AS	Yes	No	100		Yes	99.8		Yes			
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	No	99.9		Yes	99.8		Yes			
2008 LRC Program	08A-103	17.79	594472.88	748315.3	30-Sep-08	08A-0103-C2AS	Yes	No	99.1		Yes	97.2		Yes			
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	No	96.8		Yes	96.2		Yes			
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	No	100		Yes				99.6		Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	No	98.3		Yes				93.5		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	No	97.5		Yes				93.5		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	No	99.9		Yes				99.3		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	No	98.9		Yes				96.6		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	No	98.8		Yes				96.6		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	No	99.6		Yes				99		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	100		Yes				99.7		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	98.9		Yes				91.6		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	100		Yes				99.8		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	95		Yes				86.7		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	No	98.1		Yes				93.6		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	No	100		Yes				99.9		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	No	100		Yes				99.9		Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	No	99.4		Yes				96.9		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	No	84.9		Yes				71.8		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	No	93.6		Yes				87.8		Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	No	98.9		Yes				97		Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	No	98.8		Yes				94.3		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	No	99.7		Yes				99.4		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	100		Yes				99.8		Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	91.5		Yes				81.9		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	82.7		Yes				63.9		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	97.7		Yes				72.1	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	91.3		Yes				57.7		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	100		Yes				97.4		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	100		Yes				99.9		Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	97.1		Yes				95.6		Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	75.6		Yes				26.4		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	100		Yes				99.9		Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	92.3		Yes				87.7		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	84.4		Yes				60.8		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	99.8		Yes				99.2		Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	52.1		Yes				17.9		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	33.4		Yes				6.6		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	95.9		Yes				88.5		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	100		Yes				99.7		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	100		Yes				92.1		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	89.1		Yes				51.7		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	68.4		Yes				36.4		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Sieve, No. 20, percent passing			Sieve, No. 16, percent passing			Sieve, No. 40, percent passing			Sieve, No. 60, percent passing			Sieve, No. 30, percent passing		
								%			%			%			%			%		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595078.09	747202.48	01-Oct-08	08A-0098-C2AS	Yes				85.9		Yes							76.7		Yes
2008 LRC Program	08A-099	17.5	594943.33	747038.85	01-Oct-08	08A-0099-C2AS	Yes				98.8		Yes							97.2		Yes
2008 LRC Program	08A-100	17.61	594727.78	747679.04	30-Sep-08	08A-0100-C2AS	Yes				97.6		Yes							89.4		Yes
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes				99.6		Yes							98		Yes
2008 LRC Program	08A-103	17.79	594472.88	748315.3	30-Sep-08	08A-0103-C2AS	Yes				91.8		Yes							85.8		Yes
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes				94		Yes							90.5		Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	98.5		Yes				96.7		Yes	94.4		Yes			
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	83.3		Yes				60.3		Yes	8.6		Yes			
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	82.2		Yes				58.8		Yes	12		Yes			
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	97.5		Yes				94.6		Yes	82		Yes			
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	90.2		Yes				68.7		Yes	16.9		Yes			
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	90.8		Yes				72.3		Yes	8.9		Yes			
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	89.7		Yes				41.7		Yes	5.9		Yes			
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	98.5		Yes				83.2		Yes	14.1		Yes			
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	82.7		Yes				63.3		Yes	7.6		Yes			
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	99.3		Yes				98.3		Yes	92.2		Yes			
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	74.2		Yes				34.4		Yes	3.6		Yes			
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	75.8		Yes				30.4		Yes	2.4		Yes			
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	99.5		Yes				85.9		Yes	12.4		Yes			
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	98.8		Yes				94.6		Yes	74.5		Yes			
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	89.2		Yes				54.7		Yes	12.6		Yes			
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	46.8		Yes				10.6		Yes	2.3		Yes			
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	70.3		Yes				16.2		Yes	1.4		Yes			
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	94		Yes				89.1		Yes	83.6		Yes			
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	80.7		Yes				37.9		Yes	6.5		Yes			
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	95.6		Yes				45.7		Yes	9.9		Yes			
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	99.3		Yes				98.5		Yes	97.5		Yes			
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	71.3		Yes				53.1		Yes	23.2		Yes			
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	30.4		Yes				3.5		Yes	1.6		Yes			
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	22.4	J	Yes				2.1	J	Yes	0.8	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	18		Yes				11.1		Yes	10.3		Yes			
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	81.8		Yes				24.1		Yes	4.8		Yes			
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	97.7		Yes				93.3		Yes	91.9		Yes			
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	93.9		Yes				91.8		Yes	89.5		Yes			
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	11.9		Yes				9.8		Yes	9.7		Yes			
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	98.9		Yes				96.4		Yes	92.6		Yes			
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	72.7		Yes				31.6		Yes	8.2		Yes			
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	31.4		Yes				6.1		Yes	1.8		Yes			
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	94.7		Yes				70.9		Yes	58.4		Yes			
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	8		Yes				3.1		Yes	1.8		Yes			
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	1.9		Yes				1.3		Yes	1.1		Yes			
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	52.5		Yes				16.8		Yes	1.8		Yes			
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	98.8		Yes				95.4		Yes	57.8		Yes			
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	36.6		Yes				2		Yes	0.8		Yes			
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	6.8		Yes				1.1		Yes	0.8		Yes			
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	7.7		Yes				1.1		Yes	1		Yes			

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	e, No. 140, percent pas			Sieve, No. 200, percent pas			Sieve, No. 40, percent pas		
								%			%			%		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595078.09	747202.48	01-Oct-08	08A-0098-C2AS	Yes							69.8		Yes
2008 LRC Program	08A-099	17.5	594943.33	747038.85	01-Oct-08	08A-0099-C2AS	Yes							95.2		Yes
2008 LRC Program	08A-100	17.61	594727.78	747679.04	30-Sep-08	08A-0100-C2AS	Yes							77.5		Yes
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes							97		Yes
2008 LRC Program	08A-103	17.79	594472.88	748315.3	30-Sep-08	08A-0103-C2AS	Yes							79.7		Yes
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes							87.5		Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	45.7		Yes	24.4		Yes			
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	4.3		Yes	4		Yes			
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	7.4		Yes	7		Yes			
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	15.6		Yes	8.9		Yes			
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	9.5		Yes	8.5		Yes			
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	1		Yes	0.7		Yes			
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	4		Yes	3.6		Yes			
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	5.1		Yes	4.5		Yes			
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	3.2		Yes	3.1		Yes			
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	17.6		Yes	8.6		Yes			
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	1.8		Yes	1.8		Yes			
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	1.5		Yes	1.4		Yes			
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	1.9		Yes	1.6		Yes			
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	44.4		Yes	39.5		Yes			
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	8.1		Yes	7.1		Yes			
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	1.6		Yes	1.5		Yes			
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.8		Yes	0.6		Yes			
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	65.3		Yes	56.9		Yes			
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	4		Yes	3.4		Yes			
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	2.7		Yes	1.7		Yes			
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	94.3		Yes	91.2		Yes			
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	4.8		Yes	3.4		Yes			
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	1.3		Yes	1.2		Yes			
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.5	J	Yes	0.4	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	9.3		Yes	8.7		Yes			
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	3.9		Yes	3.8		Yes			
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	87.7		Yes	83.7		Yes			
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	78.1		Yes	71.1		Yes			
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	9.5		Yes	9.5		Yes			
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	60.8		Yes	54.2		Yes			
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	2.8		Yes	2.5		Yes			
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	1.5		Yes	1.4		Yes			
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	50.8		Yes	47.2		Yes			
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	1.6		Yes	1.6		Yes			
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.7		Yes	0.7		Yes			
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	1.2		Yes	1.2		Yes			
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	9.1		Yes	7		Yes			
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.5		Yes	0.4		Yes			
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.5		Yes	0.4		Yes			
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	1		Yes	0.9		Yes			

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Sieve, No. 60, percent pas			Sieve, No. 100, percent pas			Sieve, No. 140, percent pas			Sieve, No. 230, percent pas			Total Fines		
								%			%			%			%			%		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595078.09	747202.48	01-Oct-08	08A-0098-C2AS	Yes	21.3		Yes	7.12		Yes	5.85		Yes	5.02		Yes	5.02		Yes
2008 LRC Program	08A-099	17.5	594943.33	747038.85	01-Oct-08	08A-0099-C2AS	Yes	36		Yes	9.25		Yes	6.4		Yes	4.98		Yes	4.98		Yes
2008 LRC Program	08A-100	17.61	594727.78	747679.04	30-Sep-08	08A-0100-C2AS	Yes	22.4		Yes	6.98		Yes	5.79		Yes	5.14		Yes	5.14		Yes
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	92.8		Yes	63.7		Yes	45.8		Yes	29.8		Yes	29.8		Yes
2008 LRC Program	08A-103	17.79	594472.88	748315.3	30-Sep-08	08A-0103-C2AS	Yes	52		Yes	35.5		Yes	28.6		Yes	20.6		Yes	20.6		Yes
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	73.8		Yes	45		Yes	33.1		Yes	25.2		Yes	25.2		Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes													24.4		Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes													4		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes													7		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes													8.9		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes													8.5		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes													0.7		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes													3.6		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes													4.5		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes													3.1		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes													8.6		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes													1.8		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes													1.4		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes													1.6		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes													39.5		Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes													7.1		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes													1.5		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes													0.6		Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes													56.9		Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes													3.4		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes													1.7		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes													91.2		Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes													3.4		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes													1.2		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes													0.4		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No													8.7		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No													3.8		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No													83.7		Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No													71.1		Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No													9.5		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No													54.2		Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No													2.5		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No													1.4		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No													47.2		Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No													1.6		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No													0.7		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No													1.2		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No													7		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No													0.4		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No													0.4		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No													0.9		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Total Sand % Value	Total Sand % Qual	Total Sand % Detect	Total Gravel % Value	Total Gravel % Qual	Total Gravel % Detect
2008 LRC Program	08A-098	17.5	595078.09	747202.48	01-Oct-08	08A-0098-C2AS	Yes						
2008 LRC Program	08A-099	17.5	594943.33	747038.85	01-Oct-08	08A-0099-C2AS	Yes						
2008 LRC Program	08A-100	17.61	594727.78	747679.04	30-Sep-08	08A-0100-C2AS	Yes						
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes						
2008 LRC Program	08A-103	17.79	594472.88	748315.3	30-Sep-08	08A-0103-C2AS	Yes						
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes						
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	75.6		Yes	0.1	U	No
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	94.3		Yes	1.7		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	90.5		Yes	2.5		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	91		Yes	0.1		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	90.4		Yes	1.1		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	98.1		Yes	1.2		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	96		Yes	0.4		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	95.5		Yes	0.1	U	No
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	95.8		Yes	1.1		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	91.4		Yes	0.1		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	93.2		Yes	5		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	96.7		Yes	1.9		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	98.4		Yes	0.1	U	No
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	60.5		Yes	0.1	U	No
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	92.3		Yes	0.6		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	83.4		Yes	15.1		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	93		Yes	6.4		Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	42		Yes	1.1		Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	95.4		Yes	1.2		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	98		Yes	0.3		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	8.8		Yes	0.1	U	No
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	88.1		Yes	8.5		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	81.5		Yes	17.3		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	97.3		Yes	2.3		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	82.6		Yes	8.7		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	96.2		Yes	0.1	U	No
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	16.3		Yes	0.1	U	No
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	26		Yes	2.9		Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	66.1		Yes	24.4		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	45.8		Yes	0.1	U	No
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	89.8		Yes	7.7		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	83		Yes	15.6		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	52.6		Yes	0.2		Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	50.5		Yes	47.9		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	32.7		Yes	66.6		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	94.7		Yes	4.1		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	93		Yes	0.1	U	No
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	99.6		Yes	0.1	U	No
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	88.7		Yes	10.9		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	67.5		Yes	31.6		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	SQT station	2,4,5-T mg/kg			2,4,5-TP (Silvex) mg/kg			2,4-D mg/kg			2,4-DB mg/kg		
									Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	No	0.015	U	No	0.015	U	No	0.059	U	No	0.059	U	No
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	No	0.014	U	No	0.014	U	No	0.055	U	No	0.055	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	No	0.013	U	No	0.013	U	No	0.052	U	No			
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	No	0.018	U	No	0.018	U	No	0.072	U	No	0.072	U	No
2008 LRC Program	08A-103	17.79	594472.88	748315.3	30-Sep-08	08A-0103-C2AS	Yes	No	0.018	U	No	0.018	U	No	0.074	U	No	0.074	U	No
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	No	0.022	UJ	No	0.022	UJ	No	0.086	UJ	No	0.086	UJ	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	SQT station	Cadmium umol/g			Copper umol/g			Lead umol/g			Nickel umol/g			u
									Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes	No	0.0052		Yes	0.456		Yes	0.333		Yes	0.095		Yes	
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	No	0.00299		Yes	0.111		Yes	0.176		Yes	0.0214		Yes	0.0026
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	No	0.00163		Yes	0.141		Yes	0.19	J	Yes	0.0153		Yes	0.0015
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	No	0.00512		Yes	0.473		Yes	0.389	J	Yes	0.0483		Yes	0.0034
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	No	0.00416		Yes	0.183		Yes	0.256	J	Yes	0.03		Yes	0.0032
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	No	0.00645		Yes	0.354		Yes	0.325	J	Yes	0.0405		Yes	0.0034
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	No	0.00169		Yes	0.115		Yes	0.123	J	Yes	0.0123		Yes	0.0012
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	No	0.00188		Yes	0.187		Yes	0.157	J	Yes	0.0188		Yes	0.0017
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	0.00352		Yes	0.232		Yes	0.202		Yes	0.0251		Yes	0.0029
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	0.00301		Yes	0.188		Yes	0.224		Yes	0.0208		Yes	0.0029
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	0.00406		Yes	0.105		Yes	0.159		Yes	0.0229		Yes	0.0022
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	0.00203		Yes	0.137		Yes	0.132		Yes	0.0138		Yes	0.0022
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	No	0.00116		Yes	0.11		Yes	0.174	J	Yes	0.0116		Yes	0.0016
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	No	0.00135		Yes	0.129		Yes	0.116	J	Yes	0.0207		Yes	0.0019
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	No	0.0209	J	Yes	0.129	J	Yes	0.34	J	Yes	0.0337	J	Yes	0.0035
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	No	0.00112		Yes	0.13		Yes	0.0938	J	Yes	0.012		Yes	0.0018
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	No	0.000827		Yes	0.0876		Yes	0.0693	J	Yes	0.0116		Yes	0.0015
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	No	0.00116		Yes	0.135		Yes	0.111	J	Yes	0.0162		Yes	0.002
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	No	0.00258	J	Yes	0.191	J	Yes	0.475	J	Yes	0.0362	J	Yes	0.0041
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	No	0.00117		Yes	0.148		Yes	0.127	J	Yes	0.0173		Yes	0.0018
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	No	0.000612	J	Yes	0.0429		Yes	0.0919	J	Yes	0.0303		Yes	0.0021
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	0.0057	J	Yes	0.0079	UJ	No	1.37	J	Yes	0.0443	J	Yes	0.0047
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	0.00199		Yes	0.0455		Yes	0.132	J	Yes	0.0257		Yes	0.0022
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	0.00172		Yes	0.156		Yes	0.136	J	Yes	0.0173		Yes	0.0022
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	0.00136		Yes	0.148		Yes	0.128	J	Yes	0.0233		Yes	0.0017
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	0.000705	J	Yes	0.0542		Yes	0.0553	J	Yes	0.0104		Yes	0.0021
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	0.001	J	Yes	0.0974		Yes	0.0909	J	Yes	0.0131		Yes	0.0034
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	0.00271	J	Yes	0.185	J	Yes	0.32	J	Yes	0.0369	J	Yes	0.0058
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	0.0101	J	Yes	0.311	J	Yes	0.325	J	Yes	0.049	J	Yes	0.005
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	0.000546	J	Yes	0.0833		Yes	0.0785	J	Yes	0.0177		Yes	0.0016
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	0.00296	J	Yes	0.541	J	Yes	0.965	J	Yes	0.0272	J	Yes	0.0052
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	0.000925	J	Yes	0.134		Yes	0.112	J	Yes	0.0202		Yes	0.0024
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	0.000874		Yes	0.1		Yes	0.309	J	Yes	0.0227		Yes	0.0017
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	0.00697	J	Yes	0.976	J	Yes	0.766	J	Yes	0.157	J	Yes	0.0092
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	0.00124		Yes	0.156	J	Yes	0.161	J	Yes	0.0289		Yes	0.002
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	0.00068	J	Yes	0.0939	J	Yes	0.115	J	Yes	0.0203		Yes	0.0021
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	0.000435	J	Yes	0.0964	J	Yes	0.0799	J	Yes	0.0239		Yes	0.0018
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	0.0012	U	No	0.0236	J	Yes	0.0344	J	Yes	0.0107		Yes	0.0025
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	0.00097	U	No	0.143	J	Yes	0.0968	J	Yes	0.0222		Yes	0.002
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	0.00165		Yes	0.157	J	Yes	0.1	J	Yes	0.0204		Yes	0.0025
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	0.00078	U	No	0.0652	J	Yes	0.0976	J	Yes	0.0269		Yes	0.0016

Silver		Zinc		
umol/g		umol/g		
Qual	Detect	Value	Qual	Detect
		1.9		Yes
U	No	1.24		Yes
U	No	0.68		Yes
U	No	2.26		Yes
U	No	1.51		Yes
U	No	2.18		Yes
U	No	0.54		Yes
U	No	0.883		Yes
U	No	1.49		Yes
U	No	1		Yes
U	No	1.14		Yes
U	No	0.728		Yes
U	No	0.475		Yes
U	No	0.718		Yes
UJ	No	10.7	J	Yes
U	No	0.562		Yes
U	No	0.384		Yes
U	No	0.654		Yes
UJ	No	3.17	J	Yes
U	No	0.695		Yes
U	No	0.674		Yes
UJ	No	10.2	J	Yes
U	No	0.863	J	Yes
U	No	0.661	J	Yes
U	No	0.722	J	Yes
U	No	0.371	J	Yes
U	No	0.543	J	Yes
UJ	No	1.95	J	Yes
UJ	No	3.35	J	Yes
U	No	0.522	J	Yes
UJ	No	4.79	J	Yes
U	No	0.683	J	Yes
U	No	0.657	J	Yes
UJ	No	4.9	J	Yes
U	No	0.886		Yes
U	No	0.541		Yes
U	No	0.566		Yes
U	No	0.31		Yes
U	No	0.607		Yes
U	No	0.516		Yes
U	No	0.407		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	SQT station	Aluminum mg/kg			Antimony mg/kg			Arsenic mg/kg			Barium mg/kg			Beryllium mg/kg	
									Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	No														
2008 LRC Program	08A-098	17.5	595078.09	747202.48	01-Oct-08	08A-0098-C2AS	Yes	No	4140		Yes	1.65		Yes	1.1		Yes	355		Yes	0.248	
2008 LRC Program	08A-098	17.5	595083.93	747204.7	01-Oct-08	08A-0098-G3AS	Yes	No														
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	No														
2008 LRC Program	08A-099	17.5	594943.33	747038.85	01-Oct-08	08A-0099-C2AS	Yes	No	3860		Yes	0.21		Yes	0.8		Yes	60.7		Yes	0.172	
2008 LRC Program	08A-099	17.5	594944.64	747039.23	01-Oct-08	08A-0099-G3AS	Yes	No														
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	No														
2008 LRC Program	08A-100	17.61	594727.78	747679.04	30-Sep-08	08A-0100-C2AS	Yes	No	3760		Yes	0.38		Yes	1		Yes	45.2		Yes	0.191	
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes	No														
2008 LRC Program	08A-100	17.61	594727.14	747677.65	30-Sep-08	08A-0100-G3AS	Yes	No														
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	No														
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	No	10000		Yes	1		Yes	4.3		Yes	127		Yes	0.392	
2008 LRC Program	08A-101	17.66	594378.96	747691.16	02-Oct-08	08A-0101-G2AS	Yes	No														
2008 LRC Program	08A-103	17.79	594472.88	748315.3	30-Sep-08	08A-0103-C2AS	Yes	No	6460		Yes	1.98		Yes	4.3		Yes	355		Yes	0.336	
2008 LRC Program	08A-103	17.79	594475.92	748317.66	30-Sep-08	08A-0103-G2AS	Yes	No														
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	No														
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	No	7440	J	Yes	0.89	J	Yes	3.6	J	Yes	119	J	Yes	0.344	J
2008 LRC Program	08A-104	18.48	594047	751439.07	29-Sep-08	08A-0104-G2AS	Yes	No														
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	No	6030		Yes	0.588	J	Yes	2.51		Yes	102		Yes	0.265	
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	No	4090		Yes	0.17	J	Yes	1.11		Yes	49.7		Yes	0.191	
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	No	4600		Yes	0.174	J	Yes	1.22		Yes	53.7		Yes	0.214	
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	No	4690		Yes	0.657	J	Yes	1.67		Yes	74.9		Yes	0.231	
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	No	5280		Yes	0.366	J	Yes	1.97		Yes	58.9		Yes	0.361	
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	No	3860		Yes	0.098	J	Yes	0.76		Yes	39.2		Yes	0.167	
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	No	3620		Yes	0.398	J	Yes	1.07		Yes	53.4		Yes	0.18	
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	4210		Yes	0.236	J	Yes	0.95		Yes	38.6	J	Yes	0.186	
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	3530		Yes	0.266	J	Yes	0.89		Yes	48.2	J	Yes	0.185	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	4230		Yes	0.417	J	Yes	1.09		Yes	55.8	J	Yes	0.185	
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	3690		Yes	0.11	J	Yes	0.92		Yes	191	J	Yes	0.151	
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	No	3210		Yes	0.094	J	Yes	0.78		Yes	33		Yes	0.156	
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	No	3220		Yes	0.082	J	Yes	0.97		Yes	61.2		Yes	0.184	
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	No	9290		Yes	1	J	Yes	6.88		Yes	203		Yes	0.424	
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	No	4570		Yes	0.395	J	Yes	1.67		Yes	106		Yes	0.263	
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	No	5830		Yes	0.137	J	Yes	1.17		Yes	40.5		Yes	0.239	
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	No	3530		Yes	0.1	J	Yes	1.02		Yes	37.2		Yes	0.166	
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	No	11800	J	Yes	3.84	J	Yes	12	J	Yes	485	J	Yes	0.507	J
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	No	3700		Yes	0.349	J	Yes	0.94		Yes	37.7		Yes	0.188	
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	No	3790		Yes	0.205	J	Yes	0.88		Yes	34.7		Yes	0.144	
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	16600	J	Yes	8.76	J	Yes	24	J	Yes	1290	J	Yes	0.809	J
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	3570		Yes	0.359	J	Yes	0.89		Yes	156	J	Yes	0.169	
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	4290		Yes	0.064	J	Yes	1.03		Yes	30.8	J	Yes	0.173	
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	4880		Yes	0.059	J	Yes	0.82		Yes	26.1	J	Yes	0.18	
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	1670		Yes	0.274	J	Yes	1.3		Yes	43.4	J	Yes	0.226	
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	3700		Yes	0.126	J	Yes	1.06		Yes	47.2	J	Yes	0.222	
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	13700	J	Yes	2.11	J	Yes	4.59	J	Yes	266	J	Yes	0.606	J
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	10400	J	Yes	0.671	J	Yes	5.35	J	Yes	141	J	Yes	0.445	J
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	4260		Yes	0.102	J	Yes	0.75		Yes	34.7	J	Yes	0.121	
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	10100	J	Yes	5.77	J	Yes	6.64	J	Yes	225	J	Yes	0.419	J
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	4100		Yes	0.152	J	Yes	0.82		Yes	32.8	J	Yes	0.147	
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	5060		Yes	0.058	J	Yes	1.21		Yes	30.2	J	Yes	0.212	
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	9080	J	Yes	0.312	J	Yes	3.81	J	Yes	170	J	Yes	0.406	J

2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	710		Yes	0.108	J	Yes	1.44		Yes	25.1	J	Yes	0.114	
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	3800		Yes	0.084	J	Yes	0.89		Yes	25.5	J	Yes	0.124	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	4340		Yes	0.064	J	Yes	1.34		Yes	40.8	J	Yes	0.213	
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	3490		Yes	0.18	J	Yes	1.08		Yes	43.1	J	Yes	0.169	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	4230		Yes	0.049	J	Yes	0.95		Yes	34.4	J	Yes	0.169	
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	7220		Yes	0.222	J	Yes	1.29		Yes	33.3	J	Yes	0.161	
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	3050		Yes	0.096	J	Yes	0.95		Yes	26.4	J	Yes	0.164	

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Cadmium			Calcium			Chromium			Cobalt			Copper			Iron			Lead			Magnesium			Manganese			Mercury			Methyl mercury			Nickel		
mg/kg			mg/kg			mg/kg			mg/kg			mg/kg			mg/kg			mg/kg			mg/kg			mg/kg			µg/kg			µg/kg			mg/kg		
Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
																											861		Yes						
0.777		Yes	2050		Yes	18.7		Yes	4.84		Yes	36.1		Yes	9770		Yes	120		Yes	1700		Yes	176		Yes							9.61		Yes
												87		Yes																			11.2		Yes
																											475		Yes						
0.743		Yes	1590		Yes	12.3		Yes	5.17		Yes	30.2		Yes	9030		Yes	96.3		Yes	1640		Yes	111		Yes							10		Yes
												39.3	J	Yes																			9.67		Yes
																											398	J	Yes						
4.95		Yes	1550		Yes	14.4		Yes	5.55		Yes	50.2		Yes	7650		Yes	84.4		Yes	1400		Yes	99.3		Yes							13.5		Yes
																														0.691		Yes			
												32.6		Yes																			8.45		Yes
																											10400	J	Yes						
4.69		Yes	3020		Yes	54.9		Yes	7.18		Yes	107		Yes	17000		Yes	264	J	Yes	2570		Yes	264		Yes							19.2		Yes
												126		Yes																			22.2		Yes
2.96		Yes	3860		Yes	40.3		Yes	7.38		Yes	98.8		Yes	13500		Yes	62.1		Yes	2160		Yes	203		Yes							16.2		Yes
												31.7		Yes																			9.63		Yes
																											1740	J	Yes						
4.02	J	Yes	2910	J	Yes	47.2	J	Yes	7.62	J	Yes	94.6	J	Yes	13600	J	Yes	189	J	Yes	2310	J	Yes	249	J	Yes							16.4	J	Yes
												65.3	J	Yes																			16.4	J	Yes
2.27	J	Yes	3760		Yes	29.6	J	Yes	9.14	J	Yes	87.9	J	Yes	12600		Yes	237	J	Yes	2460		Yes	203		Yes	660		Yes	0.486	J	Yes	19	J	Yes
0.453	J	Yes	1740		Yes	15.2	J	Yes	4.59	J	Yes	28.4	J	Yes	9190		Yes	85.7	J	Yes	1720		Yes	196		Yes	316		Yes	0.312		Yes	9.43	J	Yes
0.498	J	Yes	2030		Yes	15.9	J	Yes	4.98	J	Yes	31.4	J	Yes	9590		Yes	79	J	Yes	1690		Yes	247		Yes	480		Yes	0.502		Yes	10.3	J	Yes
1.66	J	Yes	2110		Yes	24.1	J	Yes	7.08	J	Yes	81.6	J	Yes	11300		Yes	219	J	Yes	1890		Yes	196		Yes	1660		Yes	1.35		Yes	15.7	J	Yes
1.18	J	Yes	4700		Yes	21.6	J	Yes	5.5	J	Yes	46.6	J	Yes	12800		Yes	112	J	Yes	1810		Yes	378		Yes	1450		Yes	0.878		Yes	13.3	J	Yes
0.532	J	Yes	1610		Yes	12.4	J	Yes	4.48	J	Yes	26.6	J	Yes	9410		Yes	111	J	Yes	1760		Yes	146		Yes	350		Yes	0.242		Yes	11.1	J	Yes
0.471	J	Yes	1320		Yes	13.6	J	Yes	4.82	J	Yes	29.8	J	Yes	8450		Yes	61.7	J	Yes	1570		Yes	109		Yes	322		Yes	0.042		Yes	9.84	J	Yes
0.455	J	Yes	1720		Yes	12.7	J	Yes	4.52	J	Yes	31.7	J	Yes	9940		Yes	73.8	J	Yes	1670		Yes	168		Yes	380		Yes	0.392	J	Yes	10.5	J	Yes
0.393	J	Yes	1440		Yes	17.7	J	Yes	4.27	J	Yes	26.8	J	Yes	9270		Yes	163	J	Yes	6300		Yes	149		Yes	334		Yes	0.203		Yes	8.91	J	Yes
1.02	J	Yes	1880		Yes	14.8	J	Yes	7	J	Yes	43.3	J	Yes	10700		Yes	107	J	Yes	1820		Yes	128		Yes	461		Yes	0.453		Yes	13	J	Yes
0.406	J	Yes	1820		Yes	9.41	J	Yes	3.97	J	Yes	26.2	J	Yes	9220		Yes	52.6	J	Yes	1520		Yes	147		Yes	304		Yes	0.324		Yes	9.08	J	Yes
0.3	J	Yes	1740		Yes	12.1	J	Yes	4.14	J	Yes	20.6	J	Yes	7940		Yes	49.8	J	Yes	1500		Yes	94.6		Yes	448		Yes	0.087		Yes	8.8	J	Yes
0.428	J	Yes	1290		Yes	12.3	J	Yes	4.56	J	Yes	68.1	J	Yes	8460		Yes	105	J	Yes	1570		Yes	133		Yes	205		Yes	0.112		Yes	9.72	J	Yes
13.2	J	Yes	2650		Yes	113	J	Yes	8.23	J	Yes	209	J	Yes	15100		Yes	405	J	Yes	2620		Yes	288		Yes	2000		Yes	0.906		Yes	18.9	J	Yes
0.931	J	Yes	2130		Yes	20.3	J	Yes	5.53	J	Yes	43.2	J	Yes	10800		Yes	99.6	J	Yes	2060		Yes	235		Yes	306		Yes	0.245		Yes	12.8	J	Yes
0.338	J	Yes	2320		Yes	11.7	J	Yes	5.46	J	Yes	31.2	J	Yes	12300		Yes	51	J	Yes	2190		Yes	297		Yes	191		Yes	0.153		Yes	12.2	J	Yes
0.237	J	Yes	1350		Yes	11.7	J	Yes	4.62	J	Yes	17.3	J	Yes	8860		Yes	60.6	J	Yes	1590		Yes	120		Yes	189		Yes	0.127		Yes	10.1	J	Yes
2.31	J	Yes	5030	J	Yes	67.7	J	Yes	8.01	J	Yes	340	J	Yes	18900	J	Yes	947	J	Yes	3190	J	Yes	349	J	Yes	3450	J	Yes	0.968	J	Yes	20.2	J	Yes
0.295	J	Yes	1620		Yes	13.5	J	Yes	4.86	J	Yes	25	J	Yes	9870		Yes	53.1	J	Yes	1760		Yes	129		Yes	237		Yes	0.518		Yes	11.4	J	Yes
0.355	J	Yes	5820		Yes	13.1	J	Yes	4.62	J	Yes	38.7	J	Yes	9030		Yes	68.4	J	Yes	1790		Yes	97.6		Yes	230		Yes	0.982		Yes	10.4	J	Yes
4.65	J	Yes	4800	J	Yes	112	J	Yes	12.1	J	Yes	537	J	Yes	21400	J	Yes	1560	J	Yes	3850	J	Yes	380	J	Yes	5650	J	Yes	1.14	J	Yes	24.4	J	Yes
0.443	J	Yes	1230	J	Yes	11.2	J	Yes	4.98	J	Yes	23.9	J	Yes	8780	J	Yes	51.5	J	Yes	1640	J	Yes	97	J	Yes	281		Yes	0.316		Yes	9.72	J	Yes
0.351	J	Yes	1590	J	Yes	12.2	J	Yes	5.98	J	Yes	26.4	J	Yes	10200	J	Yes	64.6	J	Yes	2050	J	Yes	114	J	Yes	262		Yes	0.202		Yes	12.4	J	Yes
0.271	J	Yes	1100	J	Yes	7.5	J	Yes	4.17	J	Yes	18.7	J	Yes	15400	J	Yes	37.9	J	Yes	2410	J	Yes	146	J	Yes	257		Yes	0.084		Yes	9.58	J	Yes
0.452	J	Yes	725	J	Yes	15.2	J	Yes	7.25	J	Yes	47.7	J	Yes	3090	J	Yes	53.5	J	Yes	594	J	Yes	107	J	Yes	273		Yes	0.173		Yes	17.3	J	Yes
0.355	J	Yes	2080	J	Yes	13.7	J	Yes	4.85	J	Yes	30.6	J	Yes	9390	J	Yes	56.5	J	Yes	2180	J	Yes	152	J	Yes	161		Yes	0.152		Yes	13	J	Yes
2.42	J	Yes	5500	J	Yes	42	J	Yes	10.2	J	Yes	142	J	Yes	24300	J	Yes	1000	J	Yes	4060	J	Yes	761	J	Yes	2770	J	Yes	2.19	J	Yes	28.9	J	Yes
4.02	J	Yes	3010	J	Yes	47.9	J	Yes	7.58	J	Yes	101	J	Yes	17400	J	Yes	223	J	Yes	2870	J	Yes	374	J	Yes	3380	J	Yes	1.26	J	Yes	17.6	J	Yes
0.144	J	Yes	1340	J	Yes	7.88	J	Yes	3.97	J	Yes	18.6	J	Yes	18200	J	Yes	35.4	J	Yes	3390	J	Yes	158	J	Yes	74.4		Yes	0.028	J	Yes	9.13	J	Yes
1.56	J	Yes	4100	J	Yes	61.2	J	Yes	7.14	J	Yes	272	J	Yes	16600	J	Yes	822	J	Yes	2740	J	Yes	348	J	Yes	2640	J	Yes	0.571	J	Yes	14.7	J	Yes
0.209	J	Yes	1900	J	Yes	10.6	J	Yes	4.02	J	Yes	18.7	J	Yes	11300	J	Yes	88.9	J	Yes	1980	J	Yes	138	J	Yes	51.6		Yes	0.023	J	Yes	8.58	J	Yes
0.152	J	Yes	8360	J	Yes	11.7	J	Yes	4.76	J	Yes	28	J	Yes	14700	J	Yes	32.9	J	Yes	3020	J	Yes	233	J	Yes	108		Yes	0.098		Yes	10.1	J	Yes
1.15	J	Yes	5660	J	Yes	57.2	J	Yes	8.81	J	Yes	94.6	J	Yes	19900	J	Yes	181	J	Yes	3790	J	Yes	1440	J	Yes	490	J	Yes	3.72	J	Yes	20.8	J	Yes

0.193	J	Yes	576	J	Yes	8.21	J	Yes	3.05	J	Yes	16	J	Yes	1680	J	Yes	41.7	J	Yes	311	J	Yes	150	J	Yes	1510		Yes	0.376		Yes	6.95	J	Yes
0.119	J	Yes	1470	J	Yes	14.5	J	Yes	6.83	J	Yes	42.7	J	Yes	11000	J	Yes	30.5	J	Yes	2370	J	Yes	204	J	Yes	40.4		Yes	0.087		Yes	13	J	Yes
0.188	J	Yes	1830	J	Yes	17.9	J	Yes	6.05	J	Yes	17.5	J	Yes	13700	J	Yes	43.9	J	Yes	2340	J	Yes	297	J	Yes	53.1		Yes	0.078		Yes	26.1	J	Yes
0.527	J	Yes	1750	J	Yes	15.3	J	Yes	4.83	J	Yes	27.7	J	Yes	8830	J	Yes	63.3	J	Yes	1490	J	Yes	197	J	Yes	291		Yes	0.567		Yes	9.78	J	Yes
0.195	J	Yes	1550	J	Yes	13.8	J	Yes	5	J	Yes	377	J	Yes	12300	J	Yes	227	J	Yes	2330	J	Yes	262	J	Yes	51.6		Yes	0.037		Yes	10.2	J	Yes
0.135	J	Yes	1840	J	Yes	12.7	J	Yes	4.06	J	Yes	14.1	J	Yes	11100	J	Yes	23.4	J	Yes	1850	J	Yes	308	J	Yes	30.7		Yes	0.022	J	Yes	10.2	J	Yes
0.113	J	Yes	1220	J	Yes	7.96	J	Yes	4.07	J	Yes	14.5	J	Yes	9950	J	Yes	80.4	J	Yes	2090	J	Yes	223	J	Yes	42.1		Yes	0.048		Yes	8.34	J	Yes

Potassium			Selenium			Silver			Sodium			Thallium			Titanium			Vanadium			Zinc		
mg/kg			mg/kg			mg/kg			mg/kg			mg/kg			mg/kg			mg/kg			mg/kg		
Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
359		Yes	1	U	No	0.45		Yes	205		Yes	0.08		Yes	300		Yes	9.54		Yes	152		Yes
334		Yes	1.2	U	No	0.38		Yes	172		Yes	0.071		Yes	277		Yes	10		Yes	129		Yes
309		Yes	1.1	U	No	0.32		Yes	172		Yes	0.084		Yes	253		Yes	9.98		Yes	121		Yes
500		Yes	0.5	J	Yes	3.23		Yes	244		Yes	0.129		Yes	441		Yes	28.9		Yes	478	J	Yes
2340		Yes	1	U	No	1.91		Yes	678		Yes	0.124		Yes	308		Yes	21.1		Yes	369		Yes
417	J	Yes	0.9	UJ	No	1.76	J	Yes	231	J	Yes	0.122	J	Yes	327	J	Yes	19.8	J	Yes	822	J	Yes
341		Yes	0.25		Yes	1.46	J	Yes	209		Yes	0.14	J	Yes	330		Yes	17		Yes	340		Yes
280		Yes	0.1		Yes	0.426	J	Yes	143		Yes	0.041	J	Yes	254		Yes	12		Yes	216		Yes
313		Yes	0.09	U	No	0.507	J	Yes	160		Yes	0.052	J	Yes	233		Yes	11.5		Yes	170		Yes
274		Yes	0.16		Yes	0.923	J	Yes	158		Yes	0.09	J	Yes	292		Yes	15.2		Yes	228		Yes
350		Yes	0.27		Yes	0.73	J	Yes	212		Yes	0.064	J	Yes	289		Yes	20.9		Yes	302		Yes
319		Yes	0.05	J	Yes	0.444	J	Yes	154		Yes	0.04	J	Yes	298		Yes	10.2		Yes	125		Yes
258		Yes	0.09	J	Yes	0.339	J	Yes	137		Yes	0.043	J	Yes	261		Yes	10.4		Yes	100		Yes
301		Yes	0.12		Yes	0.409		Yes	151	J	Yes	0.048		Yes	264		Yes	9.74	J	Yes	163		Yes
254		Yes	0.14		Yes	0.262		Yes	137	J	Yes	0.048		Yes	230		Yes	8.84	J	Yes	3820		Yes
323		Yes	0.185		Yes	0.744	J	Yes	145	J	Yes	0.105		Yes	303		Yes	11.7	J	Yes	214		Yes
264		Yes	0.19		Yes	0.586		Yes	149	J	Yes	0.036		Yes	267		Yes	7.79	J	Yes	124		Yes
238		Yes	0.1		Yes	0.527	J	Yes	139		Yes	0.036	J	Yes	249		Yes	8.67		Yes	110		Yes
245		Yes	0.13		Yes	0.204	J	Yes	121		Yes	0.039	J	Yes	233		Yes	10.3		Yes	106		Yes
446		Yes	1.01		Yes	3.69	J	Yes	259		Yes	0.177	J	Yes	351		Yes	24.2		Yes	1810		Yes
337		Yes	0.22		Yes	0.504	J	Yes	182		Yes	0.047	J	Yes	296		Yes	13.6		Yes	172		Yes
580		Yes	0.08	J	Yes	0.244	J	Yes	228		Yes	0.039	J	Yes	282		Yes	11.9		Yes	118		Yes
227		Yes	0.04	J	Yes	0.192	J	Yes	153		Yes	0.037	J	Yes	286		Yes	18.7		Yes	98.1		Yes
533	J	Yes	1.34	J	Yes	1.73	J	Yes	450	J	Yes	0.355	J	Yes	390	J	Yes	26.6	J	Yes	1390	J	Yes
275		Yes	0.09	J	Yes	0.246	J	Yes	150		Yes	0.036	J	Yes	305		Yes	10.9		Yes	132		Yes
251		Yes	0.04	J	Yes	0.212	J	Yes	186		Yes	0.036	J	Yes	294		Yes	10.5		Yes	136		Yes
724	J	Yes	2.7	J	Yes	2.88	J	Yes	535	J	Yes	0.733	J	Yes	442	J	Yes	35.6	J	Yes	2140	J	Yes
287		Yes	71.8		Yes	0.597	J	Yes	123		Yes	0.051		Yes	260	J	Yes	12.1		Yes	144	J	Yes
276		Yes	0.04	J	Yes	0.306	J	Yes	156		Yes	0.038		Yes	313	J	Yes	14.6		Yes	105	J	Yes
259		Yes	0.12		Yes	0.079	J	Yes	103		Yes	0.045		Yes	267	J	Yes	9.02		Yes	146	J	Yes
133		Yes	0.13		Yes	0.479	J	Yes	139		Yes	0.054		Yes	86.3	J	Yes	15		Yes	76.5	J	Yes
269		Yes	0.15		Yes	0.19	J	Yes	120		Yes	0.034		Yes	270	J	Yes	11.2		Yes	241	J	Yes
808	J	Yes	1.36	J	Yes	1.4	J	Yes	367	J	Yes	0.19	J	Yes	448	J	Yes	34.3	J	Yes	1140	J	Yes
538	J	Yes	1.3	J	Yes	5.49	J	Yes	266	J	Yes	0.125	J	Yes	380	J	Yes	26.5	J	Yes	610	J	Yes
208		Yes	0.05	J	Yes	0.109	J	Yes	130		Yes	0.019	U	No	254	J	Yes	6.28		Yes	115	J	Yes
525	J	Yes	1.26	J	Yes	1.46	J	Yes	395	J	Yes	0.303	J	Yes	385	J	Yes	23	J	Yes	732	J	Yes
293		Yes	0.19		Yes	0.282	J	Yes	148		Yes	0.028		Yes	311	J	Yes	10		Yes	200	J	Yes
362		Yes	0.05	J	Yes	1.01	J	Yes	185		Yes	0.022		Yes	318	J	Yes	10.9		Yes	115	J	Yes
851	J	Yes	0.89	J	Yes	0.374	J	Yes	434	J	Yes	0.075	J	Yes	378	J	Yes	37.3	J	Yes	373	J	Yes

113		Yes	0.07	J	Yes	0.189	J	Yes	147		Yes	0.02	U	No	52.7	J	Yes	7.41		Yes	23.7	J	Yes
231		Yes	0.1	U	No	0.148	J	Yes	133		Yes	0.02	U	No	283	J	Yes	15.9		Yes	109	J	Yes
371		Yes	0.2		Yes	0.436	J	Yes	94.5		Yes	0.019	U	No	354	J	Yes	16.1		Yes	132	J	Yes
290		Yes	0.18		Yes	0.68	J	Yes	149		Yes	0.043		Yes	226	J	Yes	11.4		Yes	117	J	Yes
263		Yes	0.09	J	Yes	0.116	J	Yes	116		Yes	0.02	U	No	294	J	Yes	13.5		Yes	102	J	Yes
279		Yes	0.03	J	Yes	0.089	J	Yes	149		Yes	0.02		Yes	232	J	Yes	12.5		Yes	109	J	Yes
257		Yes	0.11		Yes	0.054	J	Yes	117		Yes	0.018	U	No	263	J	Yes	9.16		Yes	70.4	J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	SQT station	2,4'-DDD µg/kg			2,4'-DDE µg/kg			2,4'-DDT µg/kg			4,4'-DDD µg/kg		
									Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	No	14		Yes	1.2	J	Yes	0.18	U	No	36	J	Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	No	1.8		Yes	0.23	J	Yes	0.03	U	No	5.9		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	No	0.59		Yes	0.075	J	Yes	0.11	J	Yes	2		Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	No	18	J	Yes	20	J	Yes	4.9	J	Yes	80	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	No	1.8	J	Yes	0.16	U	No	0.17	U	No	5.6		Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	No	2.9	J	Yes	0.47	UJ	No	0.59	UJ	No	6.8	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	No	4.7		Yes	1	J	Yes	0.84	U	No	14.9		Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	No	0.031	U	No	0.27	U	No	0.44	U	No	9		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	No	0.102	J	Yes	0.364	J	Yes	0.4	U	No	11.8		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	No	6.2		Yes	0.69	J	Yes	0.4	U	No	17.9		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	No	0.054	U	No	0.88	J	Yes	0.67	J	Yes	13		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	No	0.04	U	No	0.17	U	No	0.14	U	No	4.4		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	No	0.03	U	No	0.16	U	No	0.31	U	No	3.7		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	0.858	J	Yes	0.141	J	Yes	0.162	J	Yes	2.7		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	0.036	J	Yes	0.191	J	Yes	1.1		Yes	7.2		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	2.6	J	Yes	0.34	J	Yes	0.29	J	Yes	8.3		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	2.43	J	Yes	0.28	U	No	0.35	U	No	7.3		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	No	0.048	J	Yes	0.21	U	No	0.19	U	No	10		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	No	0.034	U	No	0.087	U	No	0.083	U	No	1.33	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	No	0.14	U	No	0.1	U	No	0.33	U	No	0.59	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	No	2.3		Yes	0.268	J	Yes	0.41	J	Yes	6.8		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	No	1.13	J	Yes	0.11	U	No	0.18	U	No	3.6		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	No	1.6		Yes	0.15	U	No	0.128	J	Yes	5.1		Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	No	1.9	J	Yes	0.44	J	Yes	1.66	J	Yes	6.16	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	No	1.49	J	Yes	0.15	U	No	0.38	J	Yes	4.4		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	No	1.06	J	Yes	0.14	U	No	0.29	J	Yes	3.1		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	0.31	UJ	No	0.38	UJ	No	0.53	UJ	No	0.87	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	2.15	J	Yes	0.34	U	No	0.42	U	No	7.5		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	0.945	J	Yes	0.31	U	No	0.28	U	No	2.6	U	No
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	0.427	J	Yes	0.044	J	Yes	0.07	U	No	1.5		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	1.4		Yes	0.124	J	Yes	0.223	J	Yes	4.7		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	0.961	J	Yes	0.141	J	Yes	0.211	J	Yes	3.3		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	2.9	J	Yes	0.591	J	Yes	0.87	J	Yes	8.1	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	5.8	J	Yes	3.5	J	Yes	1.99	J	Yes	29.3	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	0.386	J	Yes	0.14	U	No	0.32	J	Yes	1.27	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	0.58	J	Yes	0.076	UJ	No	0.44	UJ	No	1.21	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	0.672	J	Yes	0.16	U	No	0.18	U	No	2.02	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	0.435	J	Yes	0.16	U	No	0.14	U	No	1.51	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	6.8	J	Yes	1	UJ	No	2.5	J	Yes	19.3	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	0.939	J	Yes	0.12	U	No	0.14	U	No	2.7		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	0.423	J	Yes	0.12	U	No	0.15	U	No	1.5	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	0.766	J	Yes	0.13	U	No	0.24	J	Yes	2.3		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	2.08	J	Yes	0.33	J	Yes	0.88	J	Yes	7		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	0.821	J	Yes	0.18	U	No	0.14	U	No	2.05	J	Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	0.673	J	Yes	0.16	U	No	0.31	J	Yes	1.95	J	Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	0.363	J	Yes	0.16	U	No	0.13	U	No	0.864	J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	4,4'-DDE µg/kg			4,4'-DDT µg/kg			Aldrin µg/kg			alpha-BHC µg/kg			alpha-Chlordane µg/kg			b
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	15		Yes	4.5	J	Yes	0.75		Yes	0.16	UJ	No	29		Yes	0.55
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	3		Yes	0.75		Yes	0.18	J	Yes	0.13	U	No	4.5		Yes	0.089
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	1.1		Yes	0.27	U	No	0.13	J	Yes	0.041	U	No	1.6		Yes	0.037
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	210	J	Yes	16	J	Yes	3.5	J	Yes	0.29	J	Yes	7	J	Yes	0.58
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	2.7		Yes	1	J	Yes	0.48	J	Yes	0.11	U	No	4		Yes	0.12
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	6.2	J	Yes	3.4	J	Yes	0.78	UJ	No	0.075	UJ	No	14	J	Yes	0.084
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	14.1		Yes	3.2		Yes	0.236	U	No	0.08	UJ	No	20.7		Yes	0.12
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	3.8		Yes	1.44	J	Yes	0.188	J	Yes	0.073	J	Yes	7.1		Yes	0.103
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	4.6		Yes	2		Yes	0.246	J	Yes	0.077	UJ	No	9		Yes	0.378
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	8.3		Yes	1.8		Yes	4.2		Yes	0.058	J	Yes	13.7		Yes	0.1
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	8.5		Yes	2.1		Yes	0.291	J	Yes	0.048	UJ	No	5.6		Yes	0.07
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	2.2		Yes	0.5	J	Yes	0.154	J	Yes	0.052	UJ	No	3.4		Yes	0.076
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	2.5		Yes	1.03	J	Yes	0.139	J	Yes	0.045	UJ	No	0.074	U	No	0.065
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	2.3		Yes	0.706	J	Yes	0.186	J	Yes	0.012	UJ	No	3.7		Yes	0.023
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	2.7		Yes	2.4		Yes	0.195	J	Yes	0.04	J	Yes	4.5		Yes	0.068
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	5.6		Yes	1	J	Yes	0.208	J	Yes	0.1	UJ	No	7.2		Yes	0.15
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	1.74	J	Yes	0.38	U	No	0.127	J	Yes	0.2	UJ	No	3.93	J	Yes	0.3
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	3.1		Yes	0.67	U	No	0.185	J	Yes	0.098	J	Yes	5.3		Yes	0.11
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.87	J	Yes	0.27	U	No	0.106	J	Yes	0.041	UJ	No	1.59	J	Yes	0.059
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.48	U	No	0.33	U	No	0.041	U	No	0.1	UJ	No	1.09	J	Yes	0.15
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	3.7		Yes	1.8		Yes	0.189	J	Yes	0.047	UJ	No	8.4		Yes	0.072
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	1.16	J	Yes	0.6	J	Yes	0.0892	J	Yes	0.056	UJ	No	3		Yes	0.085
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	2		Yes	0.529	J	Yes	0.132	J	Yes	0.062	UJ	No	4.7		Yes	0.094
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	4.31	J	Yes	5	J	Yes	0.12	UJ	No	0.17	UJ	No	6.7	J	Yes	0.24
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	2		Yes	1.25	J	Yes	0.144	J	Yes	0.06	UJ	No	4.3		Yes	0.077
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	2		Yes	0.97	J	Yes	0.124	J	Yes	0.048	UJ	No	4.1		Yes	0.073
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.8	J	Yes	0.59	UJ	No	0.12	UJ	No	0.2	UJ	No	2	UJ	No	0.29
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	4.11	J	Yes	0.47	U	No	0.15	U	No	0.21	UJ	No	5.9		Yes	0.3
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.8	J	Yes	0.3	U	No	0.077	J	Yes	0.15	UJ	No	2.03	J	Yes	0.22
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.759	J	Yes	0.344	J	Yes	0.042	U	No	0.014	UJ	No	1.6		Yes	0.021
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	2.2		Yes	0.891	J	Yes	0.0901	J	Yes	0.02	UJ	No	5.1		Yes	0.029
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	2.4		Yes	0.881	J	Yes	0.192	J	Yes	0.017	UJ	No	5.1		Yes	0.024
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	9.3	J	Yes	3.4	J	Yes	0.67	J	Yes	0.036	UJ	No	18.8	J	Yes	0.063
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	34.7	J	Yes	7.8	J	Yes	0.183	J	Yes	0.19	J	Yes	4.17	J	Yes	0.25
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.78	J	Yes	0.9	J	Yes	0.0713	U	No	0.087	UJ	No	2.4		Yes	0.13
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	1.18	J	Yes	0.49	UJ	No	0.059	UJ	No	0.15	UJ	No	2.8	J	Yes	0.22
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	1.55	J	Yes	0.64	J	Yes	0.0749	U	No	0.084	UJ	No	3.1		Yes	0.12
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.73	J	Yes	0.48	J	Yes	0.0543	U	No	0.079	UJ	No	1.63	J	Yes	0.12
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	16.4	J	Yes	10.3	J	Yes	1.37	J	Yes	0.11	UJ	No	53.1	J	Yes	0.16
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	1.41	J	Yes	0.52	U	No	0.106	U	No	0.183	J	Yes	3		Yes	0.097
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.81	J	Yes	0.49	J	Yes	0.0387	U	No	0.07	UJ	No	1.56	J	Yes	0.1
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	1.36	J	Yes	1.06	J	Yes	0.042	U	No	0.093	J	Yes	2.7		Yes	0.13
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	6.7		Yes	3.5		Yes	11.6		Yes	0.096	UJ	No	13.8		Yes	0.14
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.92	J	Yes	0.41	U	No	0.036	U	No	0.085	UJ	No	1.81	J	Yes	0.15
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.7	J	Yes	1.13	J	Yes	0.049	U	No	0.084	UJ	No	1.2	J	Yes	0.14
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.63	J	Yes	0.44	U	No	0.0299	U	No	0.08	UJ	No	1.79	J	Yes	0.12

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	eta-BHC µg/kg		cis-Nonachlor µg/kg			delta-BHC µg/kg			Dieldrin µg/kg		
								Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes		Yes	4.8		Yes	0.14	UJ	No	21		Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	U	No	1.1		Yes	0.029	U	No	1.4		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	UJ	No	0.39	J	Yes	0.12	UJ	No	0.34	J	Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	J	Yes	3.3	J	Yes	0.26	J	Yes	61	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	U	No	1	J	Yes	0.52	UJ	No	1.4	J	Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	UJ	No	2.4	J	Yes	0.15	UJ	No	2.4	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	U	No	6.1		Yes	0.11	U	No	1.8	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	J	Yes	1.39	J	Yes	0.077	U	No	2.5		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	J	Yes	1.9		Yes	0.208	J	Yes	3.2		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	J	Yes	3.4		Yes	0.063	U	No	2.3	U	No
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	U	No	1.44	J	Yes	0.066	U	No	2		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	U	No	1.05	J	Yes	0.072	U	No	1.41	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	U	No	0.963	J	Yes	0.062	U	No	1.29	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	U	No	1.1		Yes	0.028	J	Yes	0.776	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	J	Yes	0.968	J	Yes	0.052	U	No	1.5		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	U	No	1.5	J	Yes	0.14	U	No	1.6	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	U	No	0.67	J	Yes	0.28	U	No	1.34	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	J	Yes	1.42	J	Yes	0.076	U	No	1.9		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	U	No	0.427	J	Yes	0.056	U	No	0.47	U	No
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	U	No	0.19	U	No	0.14	U	No	0.23	U	No
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	U	No	2.6		Yes	0.063	U	No	2.9		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	U	No	0.571	J	Yes	0.075	U	No	1.09	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	U	No	0.77	J	Yes	0.084	U	No	1.43	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	UJ	No	3.1	J	Yes	0.22	UJ	No	2.26	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	U	No	2.8		Yes	0.068	U	No	1.7		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	U	No	0.856	J	Yes	0.065	U	No	1.35	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	UJ	No	0.53	UJ	No	0.27	UJ	No	0.35	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	U	No	1.37	J	Yes	0.29	U	No	2.1	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	U	No	0.48	J	Yes	0.21	U	No	0.745	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	U	No	0.415	J	Yes	0.024	J	Yes	0.742	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	U	No	1.1	J	Yes	0.028	U	No	0.975	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	U	No	1.6		Yes	0.024	U	No	1.2		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	J	Yes	4.4	J	Yes	0.051	UJ	No	4.8	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	UJ	No	0.95	J	Yes	0.23	UJ	No	1.06	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	U	No	0.518	J	Yes	0.12	U	No	0.61	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	UJ	No	0.38	UJ	No	0.21	UJ	No	0.65	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	U	No	0.71	J	Yes	0.12	U	No	0.5	U	No
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	U	No	0.39	J	Yes	0.11	U	No	0.799	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	UJ	No	12	J	Yes	0.15	UJ	No	13.1	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	U	No	0.753	J	Yes	0.092	U	No	1.24	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	U	No	0.382	J	Yes	0.099	U	No	0.75	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	U	No	0.501	J	Yes	0.12	U	No	1.42	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	U	No	3.4		Yes	0.14	U	No	106		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	J	Yes	0.433	J	Yes	0.12	U	No	1.18	J	Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	J	Yes	0.32	J	Yes	0.12	U	No	0.731	J	Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	U	No	0.396	J	Yes	0.11	U	No	0.654	J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Endosulfan I µg/kg			Endosulfan II µg/kg			Endosulfan sulfate µg/kg			Endrin µg/kg			Endrin aldehyde µg/kg			End
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	0.39	U	No	1.4		Yes	0.39	J	Yes	0.15	U	No	0.063	U	No	0.15
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	0.06	U	No	0.29	J	Yes	0.045	UJ	No	0.062	U	No	0.02	U	No	0.028
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	0.2	U	No	0.16	U	No	0.073	U	No	0.097	U	No	0.079	U	No	0.051
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	0.25	UJ	No	0.4	UJ	No	0.053	UJ	No	0.38	UJ	No	0.21	UJ	No	0.42
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	0.89	U	No	1.7	U	No	0.14	UJ	No	0.56	U	No	0.45	U	No	0.44
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	0.61	UJ	No	0.87	J	Yes	0.28	UJ	No	0.92	UJ	No	0.24	UJ	No	0.51
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	0.42	J	Yes	0.26	U	No	0.1	J	Yes	0.11	U	No	0.16	J	Yes	0.074
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.19	U	No	0.15	U	No	0.051	U	No	0.068	U	No	0.2	J	Yes	0.072
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	0.15	U	No	0.26	U	No	0.209	J	Yes	0.089	U	No	0.29	U	No	0.116
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	0.19	U	No	0.31	U	No	0.098	U	No	0.11	U	No	0.29	U	No	0.093
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	0.75	U	No	0.22	U	No	0.13	U	No	0.14	U	No	0.2	U	No	0.078
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.367	J	Yes	0.18	U	No	0.027	U	No	0.073	U	No	0.11	U	No	0.089
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.12	U	No	0.12	U	No	0.076	J	Yes	0.03	U	No	0.059	U	No	0.093
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.37	U	No	0.32	U	No	0.068	U	No	0.058	U	No	0.063	U	No	0.022
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.18	U	No	0.17	U	No	0.047	U	No	0.026	J	Yes	0.042	U	No	0.035
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.49	U	No	0.36	U	No	0.12	U	No	0.1	U	No	0.13	U	No	0.14
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.28	U	No	0.37	U	No	0.054	U	No	0.17	U	No	0.16	U	No	0.19
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.16	U	No	0.27	U	No	0.043	U	No	0.057	U	No	0.053	U	No	0.14
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.086	U	No	0.12	U	No	0.035	U	No	0.031	U	No	0.034	U	No	0.084
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.38	U	No	0.48	U	No	0.13	U	No	0.19	U	No	0.45	U	No	0.15
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.13	U	No	0.093	U	No	0.084	U	No	0.12	U	No	0.13	U	No	0.058
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.098	U	No	0.2	U	No	0.072	U	No	0.12	U	No	0.087	U	No	0.07
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.17	U	No	0.12	U	No	0.09	J	Yes	0.097	U	No	0.066	U	No	0.082
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	0.34	UJ	No	0.45	UJ	No	1.6	UJ	No	0.83	UJ	No	0.96	UJ	No	0.84
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.19	U	No	0.15	U	No	0.18	J	Yes	0.53	U	No	0.32	U	No	0.18
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.12	U	No	0.14	U	No	0.066	U	No	0.062	U	No	0.081	U	No	0.12
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.98	UJ	No	0.86	UJ	No	0.36	UJ	No	0.41	UJ	No	1.6	UJ	No	0.91
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.28	U	No	0.46	U	No	0.29	U	No	0.053	U	No	0.22	U	No	0.33
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.22	U	No	0.29	U	No	0.097	U	No	0.034	U	No	0.16	U	No	0.22
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.37	U	No	0.32	U	No	0.12	U	No	0.17	U	No	0.05	U	No	0.03
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.45	U	No	0.58	U	No	0.15	U	No	0.057	U	No	0.052	U	No	0.043
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.48	U	No	0.4	U	No	0.22	U	No	0.058	U	No	0.056	U	No	0.033
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	1.1	UJ	No	0.69	UJ	No	0.54	UJ	No	0.21	UJ	No	0.37	UJ	No	0.1
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	0.67	UJ	No	0.6	UJ	No	0.11	UJ	No	0.14	UJ	No	0.24	UJ	No	0.34
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.17	U	No	0.15	U	No	0.027	U	No	0.046	U	No	0.047	U	No	0.11
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.57	UJ	No	0.45	UJ	No	0.107	UJ	No	0.22	UJ	No	0.76	UJ	No	0.26
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.17	U	No	0.19	U	No	0.07	U	No	0.032	U	No	0.066	U	No	0.099
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.21	U	No	0.25	U	No	0.045	U	No	0.056	U	No	0.052	U	No	0.096
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	0.47	UJ	No	0.43	UJ	No	0.624	J	Yes	0.15	UJ	No	0.32	UJ	No	0.16
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.16	U	No	0.29	U	No	0.037	U	No	0.047	U	No	0.07	U	No	0.093
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.14	U	No	0.21	U	No	0.053	U	No	0.051	U	No	0.057	U	No	0.087
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.16	U	No	0.3	U	No	0.036	U	No	0.055	U	No	0.02	U	No	0.11
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.26	U	No	0.35	U	No	0.058	U	No	0.21	U	No	0.11	U	No	4.3
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.16	U	No	0.24	U	No	0.017	U	No	0.037	U	No	0.056	U	No	0.094
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.13	U	No	0.2	U	No	0.022	U	No	0.036	U	No	0.024	U	No	0.12
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.12	U	No	0.23	U	No	0.019	U	No	0.038	U	No	0.04	U	No	0.097

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Irin ketone µg/kg			gamma-BHC (Lindane) µg/kg			gamma-Chlordane µg/kg			Heptachlor µg/kg			Heptachlor epoxide µg/kg			Hexachlorobe µg/kg	
								Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	J	Yes	0.11	UJ	No	29		Yes	0.066	J	Yes	1.5		Yes	3.7	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	U	No	0.14	U	No	4.7		Yes	0.019	UJ	No	0.17	J	Yes	0.29	J
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	U	No	0.055	U	No	1.6		Yes	0.039	U	No	0.085	J	Yes	0.16	U
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	J	Yes	0.32	UJ	No	15	J	Yes	0.04	UJ	No	0.093	J	Yes	0.78	J
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	U	No	0.15	U	No	3.5		Yes	0.23	U	No	0.16	U	No	1.5	J
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	UJ	No	0.097	UJ	No	11	J	Yes	0.13	J	Yes	0.52	J	Yes	2.7	J
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	U	No	0.11	U	No	18.2	J	Yes	0.093	U	No	0.329	U	No	0.811	J
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	U	No	0.065	U	No	6.8	J	Yes	0.0564	U	No	0.449	J	Yes	0.46	J
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	J	Yes	0.14	J	Yes	8.5	J	Yes	0.0893	J	Yes	0.632	J	Yes	0.582	J
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	U	No	0.051	U	No	13.5	J	Yes	0.07	U	No	0.338	J	Yes	0.624	J
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	U	No	0.06	U	No	5.5	J	Yes	0.038	U	No	0.376	J	Yes	1.06	J
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	U	No	0.058	U	No	3.5	J	Yes	0.031	U	No	0.242	J	Yes	0.489	J
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	U	No	0.054	U	No	4	J	Yes	0.0789	J	Yes	0.347	J	Yes	0.244	J
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	U	No	0.015	U	No	3.3	J	Yes	0.038	U	No	0.235	J	Yes	0.183	J
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	U	No	0.047	U	No	4.4	J	Yes	0.0317	J	Yes	0.273	J	Yes	0.432	J
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	U	No	0.14	U	No	6.4	J	Yes	0.031	J	Yes	0.219	J	Yes	0.641	J
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	U	No	0.26	U	No	3.91	J	Yes	0.0238	J	Yes	0.151	J	Yes	0.263	J
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	U	No	0.124	J	Yes	5.5	J	Yes	0.0426	U	No	0.418	J	Yes	0.51	J
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	U	No	0.052	U	No	1.7	J	Yes	0.015	U	No	0.113	U	No	0.0655	J
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	U	No	0.13	U	No	0.775	J	Yes	0.017	U	No	0.069	U	No	0.229	J
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	U	No	0.053	U	No	7.3	J	Yes	0.0667	U	No	0.621	J	Yes	0.402	J
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	U	No	0.07	U	No	2.8	J	Yes	0.0335	U	No	0.238	J	Yes	0.207	J
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	U	No	0.085	U	No	4.2	J	Yes	0.0382	U	No	0.31	J	Yes	0.28	J
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	J	Yes	0.17	UJ	No	4.79	J	Yes	0.16	UJ	No	1.06	J	Yes	6.29	J
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	U	No	0.06	U	No	4.6	J	Yes	0.052	U	No	0.408	J	Yes	0.216	J
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	U	No	0.06	U	No	3.9	J	Yes	0.037	U	No	0.303	J	Yes	0.193	J
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	UJ	No	0.17	UJ	No	1.7	UJ	No	0.13	UJ	No	0.207	J	Yes	15	J
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	U	No	0.27	U	No	5.7	J	Yes	0.02	U	No	0.27	J	Yes	0.593	J
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	U	No	0.2	U	No	1.78	J	Yes	0.013	U	No	0.169	J	Yes	0.118	J
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	U	No	0.028	J	Yes	1.6	J	Yes	0.014	U	No	0.116	J	Yes	0.083	U
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	U	No	0.029	U	No	4	J	Yes	0.048	J	Yes	0.32	J	Yes	0.388	J
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	U	No	0.024	U	No	4.3	J	Yes	0.042	J	Yes	0.344	J	Yes	0.209	J
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	UJ	No	0.045	UJ	No	16	J	Yes	0.125	J	Yes	1.3	J	Yes	1.4	J
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	UJ	No	0.19	UJ	No	4.03	J	Yes	0.042	UJ	No	0.249	J	Yes	0.528	J
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	U	No	0.12	U	No	2.1	J	Yes	0.044	U	No	0.212	J	Yes	0.079	J
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	UJ	No	0.16	UJ	No	2.3	J	Yes	0.043	UJ	No	0.275	J	Yes	5.6	J
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	U	No	0.11	U	No	2.7	J	Yes	0.0328	U	No	0.198	J	Yes	0.109	J
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	U	No	0.11	U	No	1.64	J	Yes	0.036	U	No	0.217	J	Yes	0.0885	J
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	UJ	No	0.14	UJ	No	44.1	J	Yes	0.664	J	Yes	4.3	J	Yes	1.44	J
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	U	No	0.202	J	Yes	2.7	J	Yes	0.0384	U	No	0.387	J	Yes	0.314	J
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	U	No	0.088	U	No	1.35	J	Yes	0.04	U	No	0.205	J	Yes	0.102	J
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	U	No	0.15	J	Yes	2.3	J	Yes	0.038	U	No	0.389	J	Yes	0.262	J
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		Yes	0.12	U	No	11.4	J	Yes	0.139	J	Yes	0.659	J	Yes	0.249	J
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	U	No	0.11	U	No	1.89	J	Yes	0.031	U	No	0.204	J	Yes	0.167	J
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	U	No	0.11	U	No	1.14	J	Yes	0.029	U	No	0.147	J	Yes	0.062	J
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	U	No	0.1	U	No	1.57	J	Yes	0.0459	U	No	0.228	U	No	0.184	J

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	nzene	Methoxychlor			Oxychlordane			Total 2,4' and 4,4' DDD			Total 2,4' and 4,4' DDD (ND=			Total 2,4' and 4,4' DDD (ND=			Total 2,4'
									µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			
								Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	Yes	5	UJ	No	0.5		Yes	50	J	Yes	50	J	Yes	50	J	Yes	16
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	Yes	0.24	UJ	No	0.1	J	Yes	7.7		Yes	7.7		Yes	7.7		Yes	3.2
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	No	0.061	UJ	No	0.1	U	No	2.6		Yes	2.6		Yes	2.6		Yes	1.2
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	Yes	0.8	UJ	No	0.11	UJ	No	98	J	Yes	98	J	Yes	98	J	Yes	230
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	Yes	78	JN	Yes	0.47	U	No	7.4	J	Yes	7.4	J	Yes	7.4	J	Yes	2.7
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	Yes	3.5	UJ	No	0.42	J	Yes	9.7	J	Yes	9.7	J	Yes	9.7	J	Yes	6.2
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	Yes	0.46	U	No	0.175	J	Yes	20		Yes	20		Yes	20		Yes	15
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	Yes	16.1		Yes	0.238	J	Yes	9		Yes	9		Yes	9		Yes	3.8
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	Yes	18.4		Yes	0.363	J	Yes	12	J	Yes	12	J	Yes	12	J	Yes	5
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	Yes	0.36	U	No	0.186	J	Yes	24		Yes	24		Yes	24		Yes	9
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	Yes	7.2		Yes	0.217	J	Yes	13		Yes	13		Yes	13		Yes	9.4
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	Yes	0.31	U	No	0.089	J	Yes	4.4		Yes	4.4		Yes	4.4		Yes	2.2
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	Yes	0.16	U	No	0.14	U	No	3.7		Yes	3.7		Yes	3.7		Yes	2.5
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	2		Yes	0.11	U	No	3.6	J	Yes	3.6	J	Yes	3.6	J	Yes	2.4
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	0.66	J	Yes	0.151	J	Yes	7.2	J	Yes	7.2	J	Yes	7.2	J	Yes	2.9
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	13	J	Yes	0.195	J	Yes	11	J	Yes	11	J	Yes	11	J	Yes	5.9
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	14.8		Yes	0.043	U	No	9.7	J	Yes	9.7	J	Yes	9.7	J	Yes	1.7
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	Yes	0.19	U	No	0.215	J	Yes	10	J	Yes	10	J	Yes	10	J	Yes	3.1
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	Yes	0.09	U	No	0.047	U	No	1.3	J	Yes	1.3	J	Yes	1.4	J	Yes	0.87
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	Yes	28.6		Yes	0.048	J	Yes	0.59	J	Yes	0.66	J	Yes	0.73	J	Yes	0.48
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	Yes	12.2		Yes	0.419	J	Yes	9.1		Yes	9.1		Yes	9.1		Yes	4
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	Yes	2.8		Yes	0.124	J	Yes	4.7	J	Yes	4.7	J	Yes	4.7	J	Yes	1.2
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	Yes	3.2		Yes	0.137	J	Yes	6.7		Yes	6.7		Yes	6.7		Yes	2
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	Yes	1010	J	Yes	0.571	J	Yes	8.1	J	Yes	8.1	J	Yes	8.1	J	Yes	4.8
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	Yes	14.1		Yes	0.265	J	Yes	5.9	J	Yes	5.9	J	Yes	5.9	J	Yes	2
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	Yes	3.4		Yes	0.149	J	Yes	4.2	J	Yes	4.2	J	Yes	4.2	J	Yes	2
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	436	J	Yes	0.134	J	Yes	0.87	J	Yes	1	J	Yes	1.2	J	Yes	0.8
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	15		Yes	0.14	U	No	9.7	J	Yes	9.7	J	Yes	9.7	J	Yes	4.1
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	5		Yes	0.039	U	No	0.95	J	Yes	2.2	J	Yes	3.5	J	Yes	0.8
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	No	0.93	J	Yes	0.052	U	No	1.9	J	Yes	1.9	J	Yes	1.9	J	Yes	0.8
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	2.5		Yes	0.194	J	Yes	6.1		Yes	6.1		Yes	6.1		Yes	2.3
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	1.6		Yes	0.237	J	Yes	4.3	J	Yes	4.3	J	Yes	4.3	J	Yes	2.5
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	14.7	J	Yes	0.872	J	Yes	11	J	Yes	11	J	Yes	11	J	Yes	9.9
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	44.8	J	Yes	0.12	UJ	No	35	J	Yes	35	J	Yes	35	J	Yes	38
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	1.12	J	Yes	0.079	J	Yes	1.7	J	Yes	1.7	J	Yes	1.7	J	Yes	0.78
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	166	J	Yes	0.17	UJ	No	1.8	J	Yes	1.8	J	Yes	1.8	J	Yes	1.2
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	4.4		Yes	0.112	J	Yes	2.7	J	Yes	2.7	J	Yes	2.7	J	Yes	1.6
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	3		Yes	0.039	U	No	1.9	J	Yes	1.9	J	Yes	1.9	J	Yes	0.73
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	17.2	J	Yes	2.3	J	Yes	26	J	Yes	26	J	Yes	26	J	Yes	16
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	9.3		Yes	0.113	J	Yes	3.6	J	Yes	3.6	J	Yes	3.6	J	Yes	1.4
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	4.1		Yes	0.062	J	Yes	1.9	J	Yes	1.9	J	Yes	1.9	J	Yes	0.81
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	10.9		Yes	0.117	J	Yes	3.1	J	Yes	3.1	J	Yes	3.1	J	Yes	1.4
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	11.8		Yes	0.436	J	Yes	9.1	J	Yes	9.1	J	Yes	9.1	J	Yes	7
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	7.4		Yes	0.055	U	No	2.9	J	Yes	2.9	J	Yes	2.9	J	Yes	0.92
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	0.412	J	Yes	0.06	J	Yes	2.6	J	Yes	2.6	J	Yes	2.6	J	Yes	0.7
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	0.546	J	Yes	0.086	J	Yes	1.2	J	Yes	1.2	J	Yes	1.2	J	Yes	0.63

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	4,4'-DDE µg/kg	
								Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	J	Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	J	Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	J	Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes		Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	U	No
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes		Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	J	Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	J	Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Total 2,4' and 4,4' DDE (ND=			Total 2,4' and 4,4' DDE (ND=			Total 2,4' and 4,4' DDT (ND=			Total 2,4' and 4,4' DDT (ND=			Total 4,4' I	
								µg/kg			µg/kg			µg/kg			µg/kg			µg/kg	
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	16	J	Yes	16	J	Yes	4.5	J	Yes	4.6	J	Yes	4.7	J	Yes	56	J
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	3.2	J	Yes	3.2	J	Yes	0.75		Yes	0.77		Yes	0.78		Yes	9.7	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	1.2	J	Yes	1.2	J	Yes	0.11	J	Yes	0.25	J	Yes	0.38	J	Yes	3.1	
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	230	J	Yes	230	J	Yes	21	J	Yes	21	J	Yes	21	J	Yes	310	J
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	2.8		Yes	2.9		Yes	1	J	Yes	1.1	J	Yes	1.2	J	Yes	9.3	J
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	6.4	J	Yes	6.7	J	Yes	3.4	J	Yes	3.7	J	Yes	4	J	Yes	16	J
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	15	J	Yes	15	J	Yes	3.2		Yes	3.6		Yes	4.1		Yes	32	
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	3.9		Yes	4.1		Yes	1.4	J	Yes	1.7	J	Yes	1.9	J	Yes	14	J
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	5	J	Yes	5	J	Yes	2		Yes	2.2		Yes	2.4		Yes	18	
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	9	J	Yes	9	J	Yes	1.8		Yes	2		Yes	2.2		Yes	28	
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	9.4	J	Yes	9.4	J	Yes	2.8	J	Yes	2.8	J	Yes	2.8	J	Yes	24	
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	2.3		Yes	2.4		Yes	0.5	J	Yes	0.57	J	Yes	0.64	J	Yes	7.1	J
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	2.6		Yes	2.7		Yes	1	J	Yes	1.2	J	Yes	1.3	J	Yes	7.2	J
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	2.4	J	Yes	2.4	J	Yes	0.87	J	Yes	0.87	J	Yes	0.87	J	Yes	5.7	J
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	2.9	J	Yes	2.9	J	Yes	3.5		Yes	3.5		Yes	3.5		Yes	12	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	5.9	J	Yes	5.9	J	Yes	1.2	J	Yes	1.3	J	Yes	1.4	J	Yes	15	J
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	1.9	J	Yes	2	J	Yes	0.38	U	No	0.38	U	No	0.38	U	No	9	J
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	3.2		Yes	3.3		Yes	0.67	U	No	0.67	U	No	0.67	U	No	13	
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.91	J	Yes	0.96	J	Yes	0.27	U	No	0.27	U	No	0.27	U	No	2.2	J
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.48	U	No	0.48	U	No	0.33	U	No	0.33	U	No	0.33	U	No	0.59	J
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	4	J	Yes	4	J	Yes	2.2	J	Yes	2.2	J	Yes	2.2	J	Yes	12	
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	1.2	J	Yes	1.3	J	Yes	0.6	J	Yes	0.69	J	Yes	0.78	J	Yes	5.4	J
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	2.1		Yes	2.2		Yes	0.66	J	Yes	0.66	J	Yes	0.66	J	Yes	7.6	J
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	4.8	J	Yes	4.8	J	Yes	6.7	J	Yes	6.7	J	Yes	6.7	J	Yes	15	J
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	2.1		Yes	2.2		Yes	1.6	J	Yes	1.6	J	Yes	1.6	J	Yes	7.7	J
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	2.1		Yes	2.1		Yes	1.3	J	Yes	1.3	J	Yes	1.3	J	Yes	6.1	J
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.99	J	Yes	1.2	J	Yes	0.59	UJ	No	0.59	UJ	No	0.59	UJ	No	1.7	J
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	4.3	J	Yes	4.5	J	Yes	0.47	U	No	0.47	U	No	0.47	U	No	12	J
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.96	J	Yes	1.1	J	Yes	0.3	U	No	0.3	U	No	0.3	U	No	0.8	J
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.8	J	Yes	0.8	J	Yes	0.34	J	Yes	0.38	J	Yes	0.41	J	Yes	2.6	J
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	2.3	J	Yes	2.3	J	Yes	1.1	J	Yes	1.1	J	Yes	1.1	J	Yes	7.8	J
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	2.5	J	Yes	2.5	J	Yes	1.1	J	Yes	1.1	J	Yes	1.1	J	Yes	6.6	J
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	9.9	J	Yes	9.9	J	Yes	4.3	J	Yes	4.3	J	Yes	4.3	J	Yes	21	J
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	38	J	Yes	38	J	Yes	9.8	J	Yes	9.8	J	Yes	9.8	J	Yes	72	J
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.85	J	Yes	0.92	J	Yes	1.2	J	Yes	1.2	J	Yes	1.2	J	Yes	3	J
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	1.2	J	Yes	1.3	J	Yes	0.49	UJ	No	0.49	UJ	No	0.49	UJ	No	2.4	J
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	1.6	J	Yes	1.7	J	Yes	0.64	J	Yes	0.73	J	Yes	0.82	J	Yes	4.2	J
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.81	J	Yes	0.89	J	Yes	0.48	J	Yes	0.55	J	Yes	0.62	J	Yes	2.7	J
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	17	J	Yes	17	J	Yes	13	J	Yes	13	J	Yes	13	J	Yes	46	J
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	1.5	J	Yes	1.5	J	Yes	0.52	U	No	0.52	U	No	0.52	U	No	4.1	J
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.87	J	Yes	0.93	J	Yes	0.49	J	Yes	0.57	J	Yes	0.64	J	Yes	2.8	J
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	1.4	J	Yes	1.5	J	Yes	1.3	J	Yes	1.3	J	Yes	1.3	J	Yes	4.7	J
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	7	J	Yes	7	J	Yes	4.4	J	Yes	4.4	J	Yes	4.4	J	Yes	17	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	1	J	Yes	1.1	J	Yes	0.41	U	No	0.41	U	No	0.41	U	No	3	J
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.78	J	Yes	0.86	J	Yes	1.4	J	Yes	1.4	J	Yes	1.4	J	Yes	3.8	J
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.71	J	Yes	0.79	J	Yes	0.44	U	No	0.44	U	No	0.44	U	No	1.5	J

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	DDT	Total 4,4' DDT (ND=0.5		Total 4,4' DDT (ND=DL			Total Chlordane			Total Chlordane (ND=0.5			Total Chlordane (ND=DL		
									µg/kg			µg/kg			µg/kg			µg/kg			µg/kg	
								Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	Yes	56	J	Yes	56	J	Yes	76		Yes	76		Yes	76		Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	Yes	9.7		Yes	9.7		Yes	13	J	Yes	13	J	Yes	13	J	Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	Yes	3.2		Yes	3.4		Yes	4.6	J	Yes	4.6	J	Yes	4.7	J	Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	Yes	310	J	Yes	310	J	Yes	28	J	Yes	28	J	Yes	28	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	Yes	9.3	J	Yes	9.3	J	Yes	10	J	Yes	11	J	Yes	11	J	Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	Yes	16	J	Yes	16	J	Yes	36	J	Yes	36	J	Yes	36	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	Yes	32		Yes	32		Yes	60.5	J	Yes	60.6	J	Yes	60.6	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	Yes	14	J	Yes	14	J	Yes	21.9	J	Yes	21.9	J	Yes	21.9	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	Yes	18		Yes	18		Yes	27.9	J	Yes	27.9	J	Yes	27.9	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	Yes	28		Yes	28		Yes	43.4	J	Yes	43.4	J	Yes	43.4	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	Yes	24		Yes	24		Yes	17.9	J	Yes	17.9	J	Yes	17.9	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	Yes	7.1	J	Yes	7.1	J	Yes	11.1	J	Yes	11.1	J	Yes	11.1	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	Yes	7.2	J	Yes	7.2	J	Yes	8.86	J	Yes	8.97	J	Yes	9.08	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	5.7	J	Yes	5.7	J	Yes	11.9	J	Yes	12	J	Yes	12	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	12		Yes	12		Yes	14	J	Yes	14	J	Yes	14	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	15	J	Yes	15	J	Yes	21.6	J	Yes	21.6	J	Yes	21.6	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	9.2	J	Yes	9.4	J	Yes	11.6	J	Yes	11.7	J	Yes	11.7	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	Yes	13		Yes	14		Yes	17.3	J	Yes	17.3	J	Yes	17.3	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	Yes	2.3	J	Yes	2.5	J	Yes	5.42	J	Yes	5.44	J	Yes	5.46	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	Yes	1	J	Yes	1.4	J	Yes	2.64	J	Yes	2.74	J	Yes	2.83	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	Yes	12		Yes	12		Yes	25.8	J	Yes	25.8	J	Yes	25.8	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	Yes	5.4	J	Yes	5.4	J	Yes	9.2	J	Yes	9.2	J	Yes	9.2	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	Yes	7.6	J	Yes	7.6	J	Yes	14.5	J	Yes	14.5	J	Yes	14.5	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	Yes	15	J	Yes	15	J	Yes	23.1	J	Yes	23.1	J	Yes	23.1	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	Yes	7.7	J	Yes	7.7	J	Yes	16.5	J	Yes	16.5	J	Yes	16.5	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	Yes	6.1	J	Yes	6.1	J	Yes	12.6	J	Yes	12.6	J	Yes	12.6	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	2	J	Yes	2.3	J	Yes	1.43	J	Yes	3.55	J	Yes	5.66	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	12	J	Yes	12	J	Yes	17.7	J	Yes	17.7	J	Yes	17.8	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	2.3	J	Yes	3.7	J	Yes	6.26	J	Yes	6.28	J	Yes	6.3	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	2.6	J	Yes	2.6	J	Yes	4.92	J	Yes	4.94	J	Yes	4.97	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	7.8	J	Yes	7.8	J	Yes	14	J	Yes	14	J	Yes	14	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	6.6	J	Yes	6.6	J	Yes	15.3	J	Yes	15.3	J	Yes	15.3	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	21	J	Yes	21	J	Yes	53.2	J	Yes	53.2	J	Yes	53.2	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	72	J	Yes	72	J	Yes	12.3	J	Yes	12.3	J	Yes	12.4	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	3	J	Yes	3	J	Yes	7.07	J	Yes	7.07	J	Yes	7.07	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	2.6	J	Yes	2.9	J	Yes	7.23	J	Yes	7.51	J	Yes	7.78	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	4.2	J	Yes	4.2	J	Yes	9.22	J	Yes	9.22	J	Yes	9.22	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	2.7	J	Yes	2.7	J	Yes	5.44	J	Yes	5.46	J	Yes	5.48	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	46	J	Yes	46	J	Yes	152	J	Yes	152	J	Yes	152	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	4.4	J	Yes	4.6	J	Yes	9.27	J	Yes	9.27	J	Yes	9.27	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	2.8	J	Yes	2.8	J	Yes	4.68	J	Yes	4.68	J	Yes	4.68	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	4.7	J	Yes	4.7	J	Yes	8.42	J	Yes	8.42	J	Yes	8.42	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	17		Yes	17		Yes	39.6	J	Yes	39.6	J	Yes	39.6	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	3.2	J	Yes	3.4	J	Yes	5.88	J	Yes	5.91	J	Yes	5.94	J	Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	3.8	J	Yes	3.8	J	Yes	3.86	J	Yes	3.86	J	Yes	3.86	J	Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	1.7	J	Yes	1.9	J	Yes	5.46	J	Yes	5.46	J	Yes	5.46	J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Total DDx µg/kg			Total DDx (ND=0.5DL) µg/kg			Total DDx (ND=DL) µg/kg			Total Endosulfan µg/kg			Total Endosulfan (ND=0.5 µg/kg			Total Endosulfan µg/kg	
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	71	J	Yes	71	J	Yes	71	J	Yes	1.8	J	Yes	2	J	Yes	2.2	J
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	12	J	Yes	12	J	Yes	12	J	Yes	0.29	J	Yes	0.34	J	Yes	0.4	J
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	3.9	J	Yes	4	J	Yes	4.1	J	Yes	0.2	U	No	0.2	U	No	0.2	U
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	350	J	Yes	350	J	Yes	350	J	Yes	0.4	UJ	No	0.4	UJ	No	0.4	UJ
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	11	J	Yes	11	J	Yes	11	J	Yes	1.7	UJ	No	1.7	UJ	No	1.7	UJ
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	19	J	Yes	20	J	Yes	20	J	Yes	0.87	J	Yes	1.3	J	Yes	1.8	J
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	38	J	Yes	39	J	Yes	39	J	Yes	0.313	J	Yes	0.558	J	Yes	0.803	J
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	14	J	Yes	15	J	Yes	15	J	Yes	0.19	U	No	0.19	U	No	0.19	U
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	19	J	Yes	19	J	Yes	19	J	Yes	0.209	J	Yes	0.414	J	Yes	0.619	J
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	35	J	Yes	35	J	Yes	35	J	Yes	0.31	U	No	0.31	U	No	0.31	U
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	25	J	Yes	25	J	Yes	25	J	Yes	0.75	U	No	0.75	U	No	0.75	U
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	7.1	J	Yes	7.3	J	Yes	7.5	J	Yes	0.367	J	Yes	0.471	J	Yes	0.574	J
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	7.2	J	Yes	7.5	J	Yes	7.7	J	Yes	0.076	J	Yes	0.196	J	Yes	0.316	J
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	6.9	J	Yes	6.9	J	Yes	6.9	J	Yes	0.37	U	No	0.37	U	No	0.37	U
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	14	J	Yes	14	J	Yes	14	J	Yes	0.18	U	No	0.18	U	No	0.18	U
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	18	J	Yes	18	J	Yes	18	J	Yes	0.49	U	No	0.49	U	No	0.49	U
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	11	J	Yes	12	J	Yes	12	J	Yes	0.37	U	No	0.37	U	No	0.37	U
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	13	J	Yes	14	J	Yes	14	J	Yes	0.27	U	No	0.27	U	No	0.27	U
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	2.2	J	Yes	2.4	J	Yes	2.7	J	Yes	0.12	U	No	0.12	U	No	0.12	U
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.59	J	Yes	1.3	J	Yes	2	J	Yes	0.48	U	No	0.48	U	No	0.48	U
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	15	J	Yes	15	J	Yes	15	J	Yes	0.13	U	No	0.13	U	No	0.13	U
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	6.5	J	Yes	6.6	J	Yes	6.8	J	Yes	0.2	U	No	0.2	U	No	0.2	U
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	9.4	J	Yes	9.4	J	Yes	9.5	J	Yes	0.09	J	Yes	0.235	J	Yes	0.38	J
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	19	J	Yes	19	J	Yes	19	J	Yes	1.6	UJ	No	1.6	UJ	No	1.6	UJ
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	9.5	J	Yes	9.6	J	Yes	9.7	J	Yes	0.18	J	Yes	0.35	J	Yes	0.52	J
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	7.4	J	Yes	7.5	J	Yes	7.6	J	Yes	0.14	U	No	0.14	U	No	0.14	U
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	1.7	J	Yes	2.6	J	Yes	3.5	J	Yes	0.98	UJ	No	0.98	UJ	No	0.98	UJ
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	14	J	Yes	14	J	Yes	15	J	Yes	0.46	U	No	0.46	U	No	0.46	U
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	1.7	J	Yes	3.5	J	Yes	5.2	J	Yes	0.29	U	No	0.29	U	No	0.29	U
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	3.1	J	Yes	3.1	J	Yes	3.1	J	Yes	0.37	U	No	0.37	U	No	0.37	U
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	9.5	J	Yes	9.5	J	Yes	9.5	J	Yes	0.58	U	No	0.58	U	No	0.58	U
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	7.9	J	Yes	7.9	J	Yes	7.9	J	Yes	0.48	U	No	0.48	U	No	0.48	U
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	25	J	Yes	25	J	Yes	25	J	Yes	1.1	UJ	No	1.1	UJ	No	1.1	UJ
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	83	J	Yes	83	J	Yes	83	J	Yes	0.67	UJ	No	0.67	UJ	No	0.67	UJ
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	3.7	J	Yes	3.7	J	Yes	3.8	J	Yes	0.17	U	No	0.17	U	No	0.17	U
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	3	J	Yes	3.5	J	Yes	4	J	Yes	0.57	UJ	No	0.57	UJ	No	0.57	UJ
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	4.9	J	Yes	5.1	J	Yes	5.2	J	Yes	0.19	U	No	0.19	U	No	0.19	U
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	3.2	J	Yes	3.3	J	Yes	3.5	J	Yes	0.25	U	No	0.25	U	No	0.25	U
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	55	J	Yes	56	J	Yes	56	J	Yes	0.624	J	Yes	1.07	J	Yes	1.52	J
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	5	J	Yes	5.4	J	Yes	5.8	J	Yes	0.29	U	No	0.29	U	No	0.29	U
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	3.2	J	Yes	3.4	J	Yes	3.5	J	Yes	0.21	U	No	0.21	U	No	0.21	U
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	5.7	J	Yes	5.8	J	Yes	5.9	J	Yes	0.3	U	No	0.3	U	No	0.3	U
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	20	J	Yes	20	J	Yes	20	J	Yes	0.35	U	No	0.35	U	No	0.35	U
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	3.8	J	Yes	4.2	J	Yes	4.5	J	Yes	0.24	U	No	0.24	U	No	0.24	U
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	4.8	J	Yes	4.8	J	Yes	4.9	J	Yes	0.2	U	No	0.2	U	No	0.2	U
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	1.9	J	Yes	2.2	J	Yes	2.6	J	Yes	0.23	U	No	0.23	U	No	0.23	U

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	(ND=D	trans-Nonachlor			Toxaphene		
									µg/kg			µg/kg		
								Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	Yes	13		Yes	13	U	No
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	Yes	2.7		Yes	6.5	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	No	1		Yes	7	U	No
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	No	2.4	J	Yes	8.1	UJ	No
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	No	1.8	J	Yes	19	UJ	No
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	Yes	8.2	J	Yes	39	UJ	No
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	Yes	15.5	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	No	6.4	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	Yes	8.1	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	No	12.6	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	No	5.1	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	Yes	3.1	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	Yes	3.9	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	No	3.8	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	No	4	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	No	6.4	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	No	3.13	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	No	4.9	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	No	1.7	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	No	0.73	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	No	7.1	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	No	2.7	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	Yes	4.7	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	No	7.91	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	Yes	4.5	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	No	3.6	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	No	1.3	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	No	4.7	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	No	1.97	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	No	1.3	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	No	3.6	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	No	4.1	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	No	13.1	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	No	3.12	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	No	1.97	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	No	2.13	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	No	2.6	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	No	1.78	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	40.6	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	No	2.7	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	No	1.33	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	No	2.8	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	No	10.6	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	No	1.75	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	No	1.14	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	No	1.62	J	Yes			

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	SQT station	1-Methylnaphthalene µg/kg			1-Methylphenanthrene µg/kg			2,3,5-Trimethylnaphthale µg/kg			2,6-Dimethylnaphthalene µg/kg		
									Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	No	3500		Yes	11000		Yes	2200		Yes	3600		Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	No	79	U	No	200	U	No	38	U	No	71	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	No	210		Yes	550		Yes	120		Yes	170		Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	No	330	J	Yes	1400	J	Yes	350	J	Yes	500	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	No	17000		Yes	58000		Yes	13000		Yes	48000	J	Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	No	110000	J	Yes	65000	J	Yes	30000	J	Yes	79000	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	No	348		Yes	1210		Yes	241		Yes	381		Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	No	971		Yes	1410		Yes	522		Yes	847		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	No	959		Yes	1820		Yes	644		Yes	815		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	No	1070		Yes	2430		Yes	712		Yes	953		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	No	786		Yes	1410		Yes	382		Yes	571		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	No	1180		Yes	1110		Yes	316		Yes	715		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	No	155		Yes	329		Yes	56.3	J	Yes	118		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	66		Yes	202		Yes	43.4	J	Yes	76		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	1100		Yes	1390		Yes	453		Yes	745		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	321	J	Yes	877		Yes	145	J	Yes	187	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	406		Yes	1180		Yes	212		Yes	228		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	No	2200		Yes	831		Yes	451		Yes	1080		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	No	24.9	J	Yes	72.2	J	Yes	16.1	J	Yes	24.7	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	No	669		Yes	3130		Yes	1120		Yes	809		Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	No	497		Yes	1160		Yes	374		Yes	429		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	No	187	J	Yes	388	J	Yes	290	U	No	126	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	No	92.8	J	Yes	486		Yes	111		Yes	99.9	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	No	98200	J	Yes	82400	J	Yes	31700	J	Yes	58900	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	No	1260		Yes	1000		Yes	418		Yes	854		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	No	245		Yes	399		Yes	107		Yes	188		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	66000	J	Yes	114000	J	Yes	40100	J	Yes	62300	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	452		Yes	1320		Yes	261		Yes	285		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	76		Yes	319		Yes	71		Yes	73		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	84		Yes	175		Yes	56		Yes	64		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	48.3	J	Yes	443		Yes	86		Yes	57		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	81		Yes	189		Yes	53		Yes	73		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	5380	J	Yes	2530	J	Yes	1100	J	Yes	2020	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	5120	J	Yes	7400	J	Yes	3930	J	Yes	7020	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	55		Yes	1060		Yes	264		Yes	98		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	86400	J	Yes	39200	J	Yes	17000	J	Yes	44100	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	30.6	U	No	51		Yes	29	J	Yes	14.3	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	1940		Yes	256		Yes	128		Yes	947		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	79.2	J	Yes	251	J	Yes	46.4	J	Yes	85.1	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	132		Yes	649		Yes	170		Yes	98		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	18	U	No	38.8	J	Yes	27.7	J	Yes	8.5	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	353		Yes	536		Yes	243		Yes	402		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	66		Yes	145		Yes	30.4	J	Yes	37.5	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	60		Yes	168		Yes	54		Yes	73		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	43.1	J	Yes	18.8	J	Yes	9.4	U	No	18.5	J	Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	27.9	U	No	525		Yes	108		Yes	53		Yes

2-Methylnaphthalene			Acenaphthene			Acenaphthylene			Anthracene			Benzo(a)anthracene			Benzo(a)pyrene			Benzo(b/j)fluoranthene			Benzo(e)pyrene			Benzo(g,h,i)perylene			Benzo(k)fluoranthene		
µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
3200		Yes	8300		Yes	3800		Yes	13000		Yes	23000		Yes	49000	J	Yes	16000		Yes	14000		Yes	11000		Yes	33000		Yes
130		Yes	120		Yes	130		Yes	190		Yes	540		Yes	620		Yes	490		Yes	420		Yes	340	J	Yes	630		Yes
420		Yes	280		Yes	300		Yes	590		Yes	1100		Yes	1200		Yes	670		Yes	730		Yes	520	J	Yes	1100		Yes
410	J	Yes	640	J	Yes	400	J	Yes	980	J	Yes	2200	J	Yes	2400	J	Yes	1800	J	Yes	1700	J	Yes	1300	J	Yes	2500	J	Yes
3300		Yes	52000		Yes	8200		Yes	85000		Yes	62000		Yes	51000	J	Yes	25000	J	Yes	28000	J	Yes	21000	J	Yes	30000	J	Yes
11000	J	Yes	110000	J	Yes	15000	J	Yes	86000	J	Yes	61000	J	Yes	53000	J	Yes	28000	J	Yes	24000	J	Yes	20000	J	Yes	34000	J	Yes
577		Yes	717	J	Yes	1240		Yes	1800		Yes	5230	J	Yes	7300	J	Yes	6130		Yes	7000	J	Yes	3580		Yes	2630		Yes
1170		Yes	1280	J	Yes	1460		Yes	2190		Yes	4790		Yes	9360	J	Yes	6880		Yes	8770	J	Yes	5210	J	Yes	2980		Yes
837		Yes	1420	J	Yes	2840		Yes	3740		Yes	7810		Yes	12700		Yes	8330		Yes	11200	J	Yes	3780		Yes	3870		Yes
811		Yes	2380	J	Yes	1810		Yes	3120		Yes	4930		Yes	9220	J	Yes	6340		Yes	7390	J	Yes	4320		Yes	2830		Yes
618		Yes	969	J	Yes	800		Yes	1470		Yes	3290		Yes	5640	J	Yes	4410		Yes	4720	J	Yes	3540		Yes	1950		Yes
1470		Yes	1260	J	Yes	1200		Yes	1840		Yes	5440	J	Yes	4680		Yes	5300		Yes	4340	J	Yes	2690		Yes	2650		Yes
251		Yes	146	J	Yes	393		Yes	462		Yes	1410		Yes	1510		Yes	2120		Yes	1820	J	Yes	1220		Yes	986		Yes
106		Yes	94		Yes	270		Yes	307		Yes	840		Yes	1290		Yes	1320		Yes	1400	J	Yes	785		Yes	649		Yes
1120		Yes	1400		Yes	1970	J	Yes	2100		Yes	4120		Yes	6460		Yes	6200	J	Yes	5930	J	Yes	2940		Yes	2870	J	Yes
520	J	Yes	272		Yes	1020		Yes	1290	J	Yes	4300	J	Yes	4700	J	Yes	3970		Yes	4760	J	Yes	2820		Yes	2140		Yes
478		Yes	576		Yes	1420		Yes	1840		Yes	3440		Yes	5120		Yes	3320		Yes	4240	J	Yes	1580		Yes	2050	J	Yes
2010		Yes	1380	J	Yes	875		Yes	1230		Yes	3370		Yes	4730		Yes	3590		Yes	4140	J	Yes	2160		Yes	1670		Yes
29.5	U	No	54	J	Yes	129		Yes	155		Yes	462		Yes	368		Yes	735		Yes	466	J	Yes	362		Yes	394		Yes
945		Yes	2070	J	Yes	2920		Yes	3060		Yes	6890		Yes	9690		Yes	7840		Yes	8510	J	Yes	4820		Yes	3500		Yes
630		Yes	1310	J	Yes	680		Yes	1340		Yes	3560		Yes	5920	J	Yes	5080		Yes	4830	J	Yes	2840		Yes	2280		Yes
98	J	Yes	360	UJ	No	333	J	Yes	639	J	Yes	1830	J	Yes	1750	J	Yes	2090	J	Yes	2030	J	Yes	1080	J	Yes	1050	J	Yes
71.3	J	Yes	178	J	Yes	521		Yes	536		Yes	1590		Yes	1660		Yes	1590		Yes	2050	J	Yes	738		Yes	781		Yes
126000	J	Yes	93800	J	Yes	24200	J	Yes	80400	J	Yes	76000	J	Yes	74500	J	Yes	55900	J	Yes	54200	J	Yes	36300	J	Yes	22900	J	Yes
1170		Yes	1720	J	Yes	525		Yes	1620		Yes	2610		Yes	3760		Yes	3300		Yes	3270	J	Yes	2050		Yes	1690		Yes
148		Yes	314	J	Yes	243		Yes	522		Yes	1300		Yes	1780		Yes	1800		Yes	1940	J	Yes	1190		Yes	930		Yes
12100	J	Yes	87500	J	Yes	25000	J	Yes	120000	J	Yes	97500	J	Yes	136000	J	Yes	82900	J	Yes	91800	J	Yes	46000	J	Yes	35700	J	Yes
473		Yes	571		Yes	1010		Yes	1800		Yes	4500		Yes	5850		Yes	5130		Yes	5030	J	Yes	3220		Yes	2720		Yes
115		Yes	131		Yes	456		Yes	488		Yes	1000		Yes	1290		Yes	1130		Yes	1170	J	Yes	685		Yes	571		Yes
70		Yes	104		Yes	143	U	No	224		Yes	534		Yes	643		Yes	664		Yes	649	J	Yes	381		Yes	348		Yes
71		Yes	154		Yes	202		Yes	535		Yes	1130		Yes	1450		Yes	1450		Yes	1230	J	Yes	846		Yes	706		Yes
107		Yes	149		Yes	144	U	No	301		Yes	771		Yes	950		Yes	1210		Yes	890	J	Yes	728		Yes	577		Yes
1990	J	Yes	4920	J	Yes	2170	J	Yes	3510	J	Yes	7190	J	Yes	10700	J	Yes	12900	J	Yes	9390	J	Yes	5070	J	Yes	6900	J	Yes
3400	J	Yes	9280	J	Yes	2100	J	Yes	7520	J	Yes	5770	J	Yes	5970	J	Yes	6250	J	Yes	6650	J	Yes	3990	J	Yes	2880	J	Yes
77		Yes	54	J	Yes	320		Yes	546	J	Yes	918		Yes	1370	J	Yes	820		Yes	1310	J	Yes	766		Yes	363		Yes
29400	J	Yes	79200	J	Yes	6030	J	Yes	52900	J	Yes	39100	J	Yes	39100	J	Yes	25700	J	Yes	31300	J	Yes	12000	J	Yes	10700	J	Yes
15.3	J	Yes	63	J	Yes	90		Yes	100		Yes	279		Yes	395	J	Yes	390		Yes	412	J	Yes	253		Yes	206		Yes
1230		Yes	856	J	Yes	323		Yes	721		Yes	375		Yes	447	J	Yes	410		Yes	494	J	Yes	263		Yes	223		Yes
121	J	Yes	91	J	Yes	1050	J	Yes	659	J	Yes	1320	J	Yes	1550	J	Yes	2640	J	Yes	1830	J	Yes	608	J	Yes	1250	J	Yes
96		Yes	333	J	Yes	333		Yes	673		Yes	1420		Yes	2090	J	Yes	1740		Yes	1800	J	Yes	1210		Yes	899		Yes
10.6	J	Yes	18	J	Yes	46	U	No	61		Yes	136		Yes	181	J	Yes	212		Yes	269	J	Yes	116		Yes	101		Yes
664		Yes	1790	J	Yes	430		Yes	727		Yes	1650		Yes	2300	J	Yes	1830		Yes	2210	J	Yes	1140		Yes	953		Yes
84		Yes	94	J	Yes	1120		Yes	347		Yes	892		Yes	1060	J	Yes	1580		Yes	1190	J	Yes	673		Yes	875		Yes
113		Yes	207	J	Yes	1090		Yes	496		Yes	742		Yes	586	J	Yes	795		Yes	631	J	Yes	770	J	Yes	414		Yes
44.2	J	Yes	16	J	Yes	32.8	U	No	36.1	J	Yes	122	J	Yes	100	J	Yes	144		Yes	146	J	Yes	101		Yes	80		Yes
13.2	J	Yes	270	J	Yes	387		Yes	637		Yes	1210		Yes	1710	J	Yes	1010		Yes	1560	J	Yes	723		Yes	488		Yes

Chrysene			Dibenzo(a,h)anthracene			Dibenzothiophene			Fluoranthene			Fluorene			Indeno(1,2,3-cd)pyrene			Naphthalene			Perylene			Phenanthrene		
µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
52000	J	Yes	2400	J	Yes	2900		Yes	50000	J	Yes	8600		Yes	13000		Yes	6900		Yes	4900		Yes	46000		Yes
780		Yes	140		Yes	55		Yes	850		Yes	100	U	No	380		Yes	180	U	No	160		Yes	430	U	No
1500		Yes	220		Yes	120		Yes	1600		Yes	340		Yes	600		Yes	430		Yes	250		Yes	1200		Yes
3400	J	Yes	460	J	Yes	510	J	Yes	4900	J	Yes	990	J	Yes	1400	J	Yes	590	UJ	No	520	J	Yes	6200	J	Yes
69000		Yes	7300		Yes	11000		Yes	100000		Yes	43000		Yes	17000	J	Yes	5000		Yes	15000	J	Yes	260000		Yes
73000	J	Yes	4700	J	Yes	16000	J	Yes	94000	J	Yes	63000	J	Yes	24000	J	Yes	21000	J	Yes	6500	J	Yes	250000	J	Yes
5100	J	Yes	985		Yes	220		Yes	7820	J	Yes	692	J	Yes	3060		Yes	628	J	Yes	1150		Yes	3750		Yes
4930		Yes	1120		Yes	294		Yes	4960		Yes	896	J	Yes	4080		Yes	1600	J	Yes	1300		Yes	3500		Yes
11600		Yes	1120		Yes	324	J	Yes	8290		Yes	1200	J	Yes	4010		Yes	923	J	Yes	1800		Yes	3400		Yes
4930		Yes	1100		Yes	469		Yes	9120	J	Yes	1740	J	Yes	3450		Yes	740	J	Yes	1250		Yes	7190	J	Yes
6810	J	Yes	782		Yes	249		Yes	5750	J	Yes	732	J	Yes	2820		Yes	584	J	Yes	800		Yes	3480		Yes
5560	J	Yes	774		Yes	261		Yes	6650	J	Yes	799	J	Yes	2520		Yes	1100	J	Yes	1010		Yes	4210		Yes
1760		Yes	254		Yes	59	J	Yes	1940		Yes	171	J	Yes	1110		Yes	264	J	Yes	356		Yes	1080		Yes
1160		Yes	194	J	Yes	35.1	J	Yes	1140		Yes	105	J	Yes	712		Yes	129	J	Yes	250		Yes	520		Yes
6970		Yes	497	J	Yes	226		Yes	5600		Yes	828	J	Yes	1790		Yes	1380	J	Yes	1080		Yes	3280		Yes
6130	J	Yes	371	J	Yes	126	J	Yes	4470		Yes	406	J	Yes	1580		Yes	525	J	Yes	942	J	Yes	2400		Yes
4770		Yes	306	J	Yes	181	J	Yes	3340		Yes	535	J	Yes	944		Yes	481	J	Yes	596		Yes	1970		Yes
3510		Yes	627		Yes	242		Yes	4570		Yes	756	J	Yes	1800		Yes	2250	J	Yes	726		Yes	2800		Yes
642		Yes	73	J	Yes	17.1	J	Yes	808		Yes	47.2	J	Yes	342		Yes	51.5	UJ	No	122		Yes	336		Yes
8360		Yes	1030		Yes	518		Yes	10000		Yes	1290	J	Yes	3020		Yes	965	J	Yes	1540		Yes	4830		Yes
4570		Yes	578		Yes	291		Yes	4640		Yes	592	J	Yes	2610		Yes	735	J	Yes	935		Yes	2560		Yes
2540		Yes	351	J	Yes	68	J	Yes	2360		Yes	201	J	Yes	930	J	Yes	215	J	Yes	340	J	Yes	717	J	Yes
2480		Yes	202		Yes	58.1	J	Yes	1720		Yes	151	J	Yes	620		Yes	93.5	J	Yes	278		Yes	556		Yes
85600	J	Yes	7860	J	Yes	15700	J	Yes	112000	J	Yes	55000	J	Yes	26800	J	Yes	61700	J	Yes	9280	J	Yes	222000	J	Yes
3340		Yes	451		Yes	231		Yes	4090		Yes	996	J	Yes	1710		Yes	1310	J	Yes	698		Yes	4240		Yes
1580		Yes	153		Yes	74.2	J	Yes	2230		Yes	251	J	Yes	708		Yes	176	J	Yes	310		Yes	1320		Yes
101000	J	Yes	11900	J	Yes	19400	J	Yes	157000	J	Yes	71600	J	Yes	33700	J	Yes	22400	J	Yes	15700	J	Yes	343000	J	Yes
6990		Yes	462	J	Yes	237		Yes	5300		Yes	652	J	Yes	1850		Yes	570	J	Yes	987		Yes	3330		Yes
1130		Yes	183	J	Yes	51		Yes	1020		Yes	127	J	Yes	621		Yes	119	J	Yes	248		Yes	506		Yes
627		Yes	66	J	Yes	44.1	J	Yes	708		Yes	90	J	Yes	317		Yes	68	J	Yes	131		Yes	355		Yes
1730		Yes	145	J	Yes	80		Yes	2740	J	Yes	163	J	Yes	756		Yes	81	J	Yes	312		Yes	1020		Yes
983		Yes	131	J	Yes	43.3	J	Yes	1230		Yes	110	J	Yes	686		Yes	111	J	Yes	215		Yes	579		Yes
9570	J	Yes	947	J	Yes	490	J	Yes	12500	J	Yes	2520	J	Yes	5020	J	Yes	2160	J	Yes	1920	J	Yes	8890	J	Yes
7400	J	Yes	697	J	Yes	1630	J	Yes	13200	J	Yes	5890	J	Yes	2740	J	Yes	1600	J	Yes	1150	J	Yes	22600	J	Yes
1410	J	Yes	88	J	Yes	158		Yes	1580		Yes	102	J	Yes	345		Yes	82		Yes	178		Yes	1810	J	Yes
45500	J	Yes	1960	J	Yes	8030	J	Yes	58900	J	Yes	35300	J	Yes	9150	J	Yes	29500	J	Yes	4800	J	Yes	154000	J	Yes
387	J	Yes	39.6	J	Yes	10.3	J	Yes	434		Yes	31.6	J	Yes	183		Yes	33.1	U	No	78		Yes	162		Yes
512	J	Yes	42.1	J	Yes	212		Yes	950		Yes	722	J	Yes	154		Yes	3450	J	Yes	85		Yes	2230		Yes
2520	J	Yes	124	J	Yes	75.5	J	Yes	4020	J	Yes	189	J	Yes	825	J	Yes	255	J	Yes	324	J	Yes	1920	J	Yes
2320	J	Yes	235	J	Yes	131		Yes	2410		Yes	258	J	Yes	931		Yes	105		Yes	336		Yes	1310		Yes
228	J	Yes	26.5	J	Yes	7.86	J	Yes	298		Yes	19.5	J	Yes	91		Yes	22.5	U	No	36.2	J	Yes	128		Yes
2150	J	Yes	221	J	Yes	170		Yes	3690	J	Yes	519	J	Yes	926		Yes	2730	J	Yes	386		Yes	2790	J	Yes
1500	J	Yes	112	J	Yes	51		Yes	2150		Yes	125	J	Yes	551		Yes	172		Yes	292		Yes	1270		Yes
695	J	Yes	67	J	Yes	60		Yes	1880		Yes	199	J	Yes	360	J	Yes	256	J	Yes	157		Yes	1230		Yes
175	J	Yes	8.1	J	Yes	6.39	J	Yes	166		Yes	16.9	J	Yes	56		Yes	130		Yes	30	J	Yes	67		Yes
1630	J	Yes	154	J	Yes	47.4	J	Yes	1510		Yes	198	J	Yes	624	J	Yes	29.6	U	No	281		Yes	860		Yes

Pyrene			Total benzofluoranthenes			Total benzofluoranthenes (ND=0.5DL)			Total benzofluoranthenes (ND=DL)			Total carcinogenic PAHs			Total carcinogenic PAHs (ND=0.5DL)			Total carcinogenic PAHs (ND=DL)			Total HPAHs			Total HPAHs (ND=0.5DL)			Total HPAHs (ND=DL)			Total LPAHs		
µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
66000	J	Yes	49000		Yes	49000		Yes	49000		Yes	57000	J	Yes	57000	J	Yes	57000	J	Yes	320000	J	Yes	320000	J	Yes	320000	J	Yes	87000		Yes
1100		Yes	1100		Yes	1100		Yes	1100		Yes	910		Yes	910		Yes	910		Yes	5900	J	Yes	5900	J	Yes	5900	J	Yes	440		Yes
2100		Yes	1800		Yes	1800		Yes	1800		Yes	1700		Yes	1700		Yes	1700		Yes	11000	J	Yes	11000	J	Yes	11000	J	Yes	3100		Yes
5400	J	Yes	4300	J	Yes	4300	J	Yes	4300	J	Yes	3400	J	Yes	3400	J	Yes	3400	J	Yes	26000	J	Yes	26000	J	Yes	26000	J	Yes	9200	J	Yes
160000		Yes	55000	J	Yes	55000	J	Yes	55000	J	Yes	69000	J	Yes	69000	J	Yes	69000	J	Yes	540000	J	Yes	540000	J	Yes	540000	J	Yes	450000		Yes
130000	J	Yes	62000	J	Yes	62000	J	Yes	62000	J	Yes	69000	J	Yes	69000	J	Yes	69000	J	Yes	520000	J	Yes	520000	J	Yes	520000	J	Yes	550000	J	Yes
8040	J	Yes	8760		Yes	8760		Yes	8760		Yes	9780	J	Yes	9780	J	Yes	9780	J	Yes	49900	J	Yes	49900	J	Yes	49900	J	Yes	8820	J	Yes
7560	J	Yes	9860		Yes	9860		Yes	9860		Yes	12100	J	Yes	12100	J	Yes	12100	J	Yes	51900	J	Yes	51900	J	Yes	51900	J	Yes	10900	J	Yes
11800		Yes	12200		Yes	12200		Yes	12200		Yes	15900		Yes	15900		Yes	15900		Yes	73300		Yes	73300		Yes	73300		Yes	13500	J	Yes
10500	J	Yes	9170		Yes	9170		Yes	9170		Yes	11800	J	Yes	11800	J	Yes	11800	J	Yes	56700	J	Yes	56700	J	Yes	56700	J	Yes	17000	J	Yes
6870	J	Yes	6360		Yes	6360		Yes	6360		Yes	7500	J	Yes	7500	J	Yes	7500	J	Yes	41900	J	Yes	41900	J	Yes	41900	J	Yes	8040	J	Yes
7590	J	Yes	7950		Yes	7950		Yes	7950		Yes	6810	J	Yes	6810	J	Yes	6810	J	Yes	43900	J	Yes	43900	J	Yes	43900	J	Yes	10400	J	Yes
2140		Yes	3110		Yes	3110		Yes	3110		Yes	2240		Yes	2240		Yes	2240		Yes	14500		Yes	14500		Yes	14500		Yes	2520	J	Yes
1300		Yes	1970		Yes	1970		Yes	1970		Yes	1780	J	Yes	1780	J	Yes	1780	J	Yes	9390	J	Yes	9390	J	Yes	9390	J	Yes	1430	J	Yes
7690		Yes	9070	J	Yes	9070	J	Yes	9070	J	Yes	8200	J	Yes	8200	J	Yes	8200	J	Yes	45100	J	Yes	45100	J	Yes	45100	J	Yes	11000	J	Yes
4810		Yes	6110		Yes	6110		Yes	6110		Yes	6080	J	Yes	6080	J	Yes	6080	J	Yes	35300	J	Yes	35300	J	Yes	35300	J	Yes	5920	J	Yes
5160		Yes	5370	J	Yes	5370	J	Yes	5370	J	Yes	6220	J	Yes	6220	J	Yes	6220	J	Yes	30000	J	Yes	30000	J	Yes	30000	J	Yes	6820	J	Yes
5290	J	Yes	5260		Yes	5260		Yes	5260		Yes	6250		Yes	6250		Yes	6250		Yes	31300	J	Yes	31300	J	Yes	31300	J	Yes	9290	J	Yes
754		Yes	1130		Yes	1130		Yes	1130		Yes	599	J	Yes	599	J	Yes	599	J	Yes	4940	J	Yes	4940	J	Yes	4940	J	Yes	721	J	Yes
12000		Yes	11300		Yes	11300		Yes	11300		Yes	12500		Yes	12500		Yes	12500		Yes	67200		Yes	67200		Yes	67200		Yes	15100	J	Yes
5670	J	Yes	7360		Yes	7360		Yes	7360		Yes	7650	J	Yes	7650	J	Yes	7650	J	Yes	37700	J	Yes	37700	J	Yes	37700	J	Yes	7220	J	Yes
2340		Yes	3140	J	Yes	3140	J	Yes	3140	J	Yes	2600	J	Yes	2600	J	Yes	2600	J	Yes	16300	J	Yes	16300	J	Yes	16300	J	Yes	2110	J	Yes
2460		Yes	2370		Yes	2370		Yes	2370		Yes	2250		Yes	2250		Yes	2250		Yes	13800		Yes	13800		Yes	13800		Yes	2040	J	Yes
144000	J	Yes	78800	J	Yes	78800	J	Yes	78800	J	Yes	98500	J	Yes	98500	J	Yes	98500	J	Yes	642000	J	Yes	642000	J	Yes	642000	J	Yes	537000	J	Yes
4730		Yes	4990		Yes	4990		Yes	4990		Yes	4990		Yes	4990		Yes	4990		Yes	27700		Yes	27700		Yes	27700		Yes	10400	J	Yes
2460		Yes	2730		Yes	2730		Yes	2730		Yes	2320		Yes	2320		Yes	2320		Yes	14100		Yes	14100		Yes	14100		Yes	2830	J	Yes
215000	J	Yes	119000	J	Yes	119000	J	Yes	119000	J	Yes	170000	J	Yes	170000	J	Yes	170000	J	Yes	917000	J	Yes	917000	J	Yes	917000	J	Yes	670000	J	Yes
6340		Yes	7850		Yes	7850		Yes	7850		Yes	7490	J	Yes	7490	J	Yes	7490	J	Yes	42400	J	Yes	42400	J	Yes	42400	J	Yes	7930	J	Yes
1420		Yes	1700		Yes	1700		Yes	1700		Yes	1750	J	Yes	1750	J	Yes	1750	J	Yes	9050	J	Yes	9050	J	Yes	9050	J	Yes	1830	J	Yes
845		Yes	1010		Yes	1010		Yes	1010		Yes	865	J	Yes	865	J	Yes	865	J	Yes	5130	J	Yes	5130	J	Yes	5130	J	Yes	841	J	Yes
2890	J	Yes	2160		Yes	2160		Yes	2160		Yes	1940	J	Yes	1940	J	Yes	1940	J	Yes	13800	J	Yes	13800	J	Yes	13800	J	Yes	2160	J	Yes
1330		Yes	1790		Yes	1790		Yes	1790		Yes	1350	J	Yes	1350	J	Yes	1350	J	Yes	8600	J	Yes	8600	J	Yes	8600	J	Yes	1250	J	Yes
11900	J	Yes	19800	J	Yes	19800	J	Yes	19800	J	Yes	14200	J	Yes	14200	J	Yes	14200	J	Yes	82700	J	Yes	82700	J	Yes	82700	J	Yes	24200	J	Yes
16700	J	Yes	9130	J	Yes	9130	J	Yes	9130	J	Yes	8180	J	Yes	8180	J	Yes	8180	J	Yes	65600	J	Yes	65600	J	Yes	65600	J	Yes	49000	J	Yes
2640	J	Yes	1180		Yes	1180		Yes	1180		Yes	1670	J	Yes	1670	J	Yes	1670	J	Yes	10300	J	Yes	10300	J	Yes	10300	J	Yes	2910	J	Yes
89600	J	Yes	36400	J	Yes	36400	J	Yes	36400	J	Yes	48600	J	Yes	48600	J	Yes	48600	J	Yes	332000	J	Yes	332000	J	Yes	332000	J	Yes	357000	J	Yes
442		Yes	596		Yes	596		Yes	596		Yes	522	J	Yes	522	J	Yes	522	J	Yes	3010	J	Yes	3010	J	Yes	3010	J	Yes	447	J	Yes
971		Yes	633		Yes	633		Yes	633		Yes	586	J	Yes	586	J	Yes	586	J	Yes	4350	J	Yes	4350	J	Yes	4350	J	Yes	8300	J	Yes
3370	J	Yes	3890	J	Yes	3890	J	Yes	3890	J	Yes	2170	J	Yes	2170	J	Yes	2170	J	Yes	18200	J	Yes	18200	J	Yes	18200	J	Yes	4160	J	Yes
2740	J	Yes	2640		Yes	2640		Yes	2640		Yes	2750	J	Yes	2750	J	Yes	2750	J	Yes	16000	J	Yes	16000	J	Yes	16000	J	Yes	3010	J	Yes
304		Yes	313		Yes	313		Yes	313		Yes	253	J	Yes	253	J	Yes	253	J	Yes	1690	J	Yes	1690	J	Yes	1690	J	Yes	227	J	Yes
3350	J	Yes	2780		Yes	2780		Yes	2780		Yes	2970	J	Yes	2970	J	Yes	2970	J	Yes	18200	J	Yes	18200	J	Yes	18200	J	Yes	8990	J	Yes
1760		Yes	2460		Yes	2460		Yes	2460		Yes	1480	J	Yes	1480	J	Yes	1480	J	Yes	11200	J	Yes	11200	J	Yes	11200	J	Yes	3130	J	Yes
1490		Yes	1210		Yes	1210		Yes	1210		Yes	848	J	Yes	848	J	Yes	848	J	Yes	7800	J	Yes	7800	J	Yes	7800	J	Yes	3480	J	Yes
177		Yes	224		Yes	224		Yes	224		Yes	141	J	Yes	141	J	Yes	141	J	Yes	1130	J	Yes	1130	J	Yes	1130	J	Yes	266	J	Yes
2290		Yes	1500		Yes	1500		Yes	1500		Yes	2150	J	Yes	2150	J	Yes	2150	J	Yes	11300	J	Yes	11300	J	Yes	11300	J	Yes	2350	J	Yes

Total LPAHs (ND=0.5DL)			Total LPAHs (ND=DL)			Total PAHs			Total PAHs (ND=0.5DL)			Total PAHs (ND=DL)		
µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
87000		Yes	87000		Yes	400000	J	Yes	400000	J	Yes	400000	J	Yes
800		Yes	1200		Yes	6300	J	Yes	6700	J	Yes	7000	J	Yes
3100		Yes	3100		Yes	14000	J	Yes	14000	J	Yes	14000	J	Yes
9500	J	Yes	9800	J	Yes	35000	J	Yes	35000	J	Yes	36000	J	Yes
450000		Yes	450000		Yes	1000000	J	Yes	1000000	J	Yes	1000000	J	Yes
550000	J	Yes	550000	J	Yes	1100000	J	Yes	1100000	J	Yes	1100000	J	Yes
8820	J	Yes	8820	J	Yes	58700	J	Yes	58700	J	Yes	58700	J	Yes
10900	J	Yes	10900	J	Yes	62800	J	Yes	62800	J	Yes	62800	J	Yes
13500	J	Yes	13500	J	Yes	86800	J	Yes	86800	J	Yes	86800	J	Yes
17000	J	Yes	17000	J	Yes	73700	J	Yes	73700	J	Yes	73700	J	Yes
8040	J	Yes	8040	J	Yes	49900	J	Yes	49900	J	Yes	49900	J	Yes
10400	J	Yes	10400	J	Yes	54300	J	Yes	54300	J	Yes	54300	J	Yes
2520	J	Yes	2520	J	Yes	17000	J	Yes	17000	J	Yes	17000	J	Yes
1430	J	Yes	1430	J	Yes	10800	J	Yes	10800	J	Yes	10800	J	Yes
11000	J	Yes	11000	J	Yes	56100	J	Yes	56100	J	Yes	56100	J	Yes
5920	J	Yes	5920	J	Yes	41200	J	Yes	41200	J	Yes	41200	J	Yes
6820	J	Yes	6820	J	Yes	36900	J	Yes	36900	J	Yes	36900	J	Yes
9290	J	Yes	9290	J	Yes	40600	J	Yes	40600	J	Yes	40600	J	Yes
747	J	Yes	773	J	Yes	5660	J	Yes	5690	J	Yes	5710	J	Yes
15100	J	Yes	15100	J	Yes	82300	J	Yes	82300	J	Yes	82300	J	Yes
7220	J	Yes	7220	J	Yes	45000	J	Yes	45000	J	Yes	45000	J	Yes
2290	J	Yes	2470	J	Yes	18400	J	Yes	18600	J	Yes	18800	J	Yes
2040	J	Yes	2040	J	Yes	15900	J	Yes	15900	J	Yes	15900	J	Yes
537000	J	Yes	537000	J	Yes	1180000	J	Yes	1180000	J	Yes	1180000	J	Yes
10400	J	Yes	10400	J	Yes	38100	J	Yes	38100	J	Yes	38100	J	Yes
2830	J	Yes	2830	J	Yes	17000	J	Yes	17000	J	Yes	17000	J	Yes
670000	J	Yes	670000	J	Yes	1590000	J	Yes	1590000	J	Yes	1590000	J	Yes
7930	J	Yes	7930	J	Yes	50300	J	Yes	50300	J	Yes	50300	J	Yes
1830	J	Yes	1830	J	Yes	10900	J	Yes	10900	J	Yes	10900	J	Yes
913	J	Yes	984	J	Yes	5970	J	Yes	6050	J	Yes	6120	J	Yes
2160	J	Yes	2160	J	Yes	16000	J	Yes	16000	J	Yes	16000	J	Yes
1320	J	Yes	1390	J	Yes	9850	J	Yes	9920	J	Yes	9990	J	Yes
24200	J	Yes	24200	J	Yes	107000	J	Yes	107000	J	Yes	107000	J	Yes
49000	J	Yes	49000	J	Yes	115000	J	Yes	115000	J	Yes	115000	J	Yes
2910	J	Yes	2910	J	Yes	13200	J	Yes	13200	J	Yes	13200	J	Yes
357000	J	Yes	357000	J	Yes	689000	J	Yes	689000	J	Yes	689000	J	Yes
463	J	Yes	480	J	Yes	3460	J	Yes	3470	J	Yes	3490	J	Yes
8300	J	Yes	8300	J	Yes	12600	J	Yes	12600	J	Yes	12600	J	Yes
4160	J	Yes	4160	J	Yes	22400	J	Yes	22400	J	Yes	22400	J	Yes
3010	J	Yes	3010	J	Yes	19000	J	Yes	19000	J	Yes	19000	J	Yes
261	J	Yes	295	J	Yes	1920	J	Yes	1950	J	Yes	1990	J	Yes
8990	J	Yes	8990	J	Yes	27200	J	Yes	27200	J	Yes	27200	J	Yes
3130	J	Yes	3130	J	Yes	14300	J	Yes	14300	J	Yes	14300	J	Yes
3480	J	Yes	3480	J	Yes	11300	J	Yes	11300	J	Yes	11300	J	Yes
282	J	Yes	299	J	Yes	1400	J	Yes	1410	J	Yes	1430	J	Yes
2370	J	Yes	2380	J	Yes	13700	J	Yes	13700	J	Yes	13700	J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	SQT station	Aroclor-1016 µg/kg			Aroclor-1221 µg/kg		
									Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	No	1.8	UJ	No	1.8	UJ	No
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	No	1.2	U	No	1.2	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	No	1.1	U	No	1.1	U	No
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	No	20	UJ	No	20	UJ	No
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	No	1.3	U	No	1.3	U	No
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	No	2.1	UJ	No	2.1	UJ	No
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	No	23.2	U	No	23.2	U	No
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	No	19.6	U	No	19.6	U	No
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	No	20.4	U	No	20.4	U	No
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	No	24.2	U	No	24.2	U	No
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	No	25.7	U	No	25.7	U	No
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	No	16.6	U	No	16.6	U	No
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	No	19.2	U	No	19.2	U	No
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	21.4	U	No	21.4	U	No
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	18.1	U	No	18.1	U	No
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	20.6	U	No	20.6	U	No
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	16.8	U	No	16.8	U	No
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	No	18.5	U	No	18.5	U	No
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	No	18.7	U	No	18.7	U	No
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	No	25.5	U	No	25.5	U	No
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	No	20.2	U	No	20.2	U	No
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	No	15.8	U	No	15.8	U	No
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	No	18.5	U	No	18.5	U	No
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	No	42.2	UJ	No	42.2	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	No	19.4	U	No	19.4	U	No
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	No	19.5	U	No	19.5	U	No
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	43	UJ	No	43	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	19.3	U	No	19.3	U	No
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	15.3	U	No	15.3	U	No
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	15.6	U	No	15.6	U	No
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	17.2	U	No	17.2	U	No
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	17.9	U	No	17.9	U	No
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	42.5	UJ	No	42.5	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	36.5	UJ	No	36.5	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	16	U	No	16	U	No
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	35.1	UJ	No	35.1	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	17.7	U	No	17.7	U	No
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	16.8	U	No	16.8	U	No
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	52.4	UJ	No	52.4	UJ	No
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	20.2	U	No	20.2	U	No
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	16.5	U	No	16.5	U	No
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	16.2	U	No	16.2	U	No
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	24.9	U	No	24.9	U	No
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	17	U	No	17	U	No
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	16.4	U	No	16.4	U	No
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	16.3	U	No	16.3	U	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Aroclor-1232 µg/kg			Aroclor-1242 µg/kg			Aroclor-1248 µg/kg			Aroclor-1254 µg/kg			Aroclor-1260 µg/kg		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	1.8	UJ	No	58	JN	Yes	1.8	UJ	No	60	JN	Yes	28	JN	Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	1.2	U	No	1.2	U	No	1.2	U	No	1.2	U	No	1.2	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	1.1	U	No	5.5	JN	Yes	1.1	U	No	9.6	JN	Yes	4.8	JN	Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	20	UJ	No	2400	JN	Yes	20	UJ	No	660	JN	Yes	320	JN	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	1.3	U	No	17	JN	Yes	1.3	U	No	6.8	JN	Yes	6.7	JN	Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	2.1	UJ	No	2.1	UJ	No	2.1	UJ	No	49	JN	Yes	41	JN	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	23.2	U	No	133		Yes	23.2	U	No	161		Yes	74.7		Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	19.6	U	No	59.6	J	Yes	19.6	U	No	46.7		Yes	19.6	U	No
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	20.4	U	No	55.6	J	Yes	20.4	U	No	66.7	J	Yes	26.9		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	24.2	U	No	310	J	Yes	24.2	U	No	244	J	Yes	98		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	25.7	U	No	53.4		Yes	25.7	U	No	81.2	J	Yes	47.6		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	16.6	U	No	32.4		Yes	16.6	U	No	36		Yes	26.3		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	19.2	U	No	19.2	U	No	19.2	U	No	35.3		Yes	25.3		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	21.4	U	No	21.4	U	No	21.4	U	No	38.6	J	Yes	21.4	U	No
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	18.1	U	No	41.3		Yes	18.1	U	No	51.3		Yes	30.3	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	20.6	U	No	66.4	J	Yes	20.6	U	No	102		Yes	55.2	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	16.8	U	No	30.5		Yes	16.8	U	No	41		Yes	28.1	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	18.5	U	No	18.5	U	No	18.5	U	No	35		Yes	24.3		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	18.7	U	No	18.7	U	No	18.7	U	No	18.7	U	No	18.7	U	No
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	25.5	U	No	25.5	U	No	25.5	U	No	73	J	Yes	98.2	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	20.2	U	No	20.2	U	No	20.2	U	No	46.2		Yes	27		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	15.8	U	No	27.1		Yes	15.8	U	No	34.2		Yes	15.8	U	No
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	18.5	U	No	18.5	U	No	18.5	U	No	18.5	U	No	18.5	U	No
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	42.2	UJ	No	42.2	UJ	No	42.2	UJ	No	42.2	UJ	No	42.2	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	19.4	U	No	19.4	U	No	19.4	U	No	28.5		Yes	75.3	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	19.5	U	No	41.2		Yes	19.5	U	No	39.2		Yes	42.8	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	43	UJ	No	43	UJ	No	43	UJ	No	43	UJ	No	43	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	19.3	U	No	36.5	J	Yes	19.3	U	No	73.2		Yes	28.1	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	15.3	U	No	15.3	U	No	15.3	U	No	18.6	J	Yes	15.3	U	No
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	15.6	U	No	15.6	U	No	15.6	U	No	43.3	J	Yes	297	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	17.2	U	No	17.2	U	No	17.2	U	No	41.4		Yes	17.2	U	No
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	17.9	U	No	17.9	U	No	17.9	U	No	26.9		Yes	17.9	U	No
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	42.5	UJ	No	42.5	UJ	No	42.5	UJ	No	83.5	J	Yes	42.5	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	36.5	UJ	No	36.5	UJ	No	36.5	UJ	No	135	J	Yes	110	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	16	U	No	16	U	No	16	U	No	16	U	No	16	U	No
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	35.1	UJ	No	35.1	UJ	No	35.1	UJ	No	35.1	UJ	No	35.1	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	17.7	U	No	17.7	U	No	17.7	U	No	17.7	U	No	17.7	U	No
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	16.8	U	No	16.8	U	No	16.8	U	No	16.8	U	No	16.8	U	No
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	52.4	UJ	No	52.4	UJ	No	52.4	UJ	No	158	J	Yes	94.4	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	20.2	U	No	20.2	U	No	20.2	U	No	34.7		Yes	20.2	U	No
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	16.5	U	No	16.5	U	No	16.5	U	No	16.5	U	No	16.5	U	No
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	16.2	U	No	16.2	U	No	16.2	U	No	23.8		Yes	16.2	U	No
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	24.9	U	No	24.9	U	No	24.9	U	No	69.8		Yes	54.9		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	17	U	No	17	U	No	17	U	No	17	U	No	17	U	No
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	16.4	U	No	16.4	U	No	16.4	U	No	16.4	U	No	16.4	U	No
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	16.3	U	No	16.3	U	No	16.3	U	No	16.3	U	No	16.3	U	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Aroclor-1262 µg/kg			Aroclor-1268 µg/kg			Total PCB Aroclors µg/kg			Total PCB Aroclors (ND=½) µg/kg			Total PCB Aroclors (ND=D µg/kg		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	1.8	UJ	No	1.8	UJ	No	150	JN	Yes	150	JN	Yes	160	JN	Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	1.2	U	No	1.2	U	No	1.2	U	No	1.2	U	No	1.2	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	1.1	U	No	1.1	U	No	20	JN	Yes	23	JN	Yes	27	JN	Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	20	UJ	No	20	UJ	No	3400	JN	Yes	3400	JN	Yes	3500	JN	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	1.3	U	No	1.3	U	No	31	JN	Yes	34	JN	Yes	38	JN	Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	2.1	UJ	No	2.1	UJ	No	90	JN	Yes	97	JN	Yes	100	JN	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	23.2	U	No	23.2	U	No	368		Yes	438		Yes	507		Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	19.6	U	No	19.6	U	No	106	J	Yes	175	J	Yes	244	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	20.4	U	No	20.4	U	No	149	J	Yes	210	J	Yes	272	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	24.2	U	No	24.2	U	No	652	J	Yes	725	J	Yes	797	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	25.7	U	No	25.7	U	No	182	J	Yes	259	J	Yes	336	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	16.6	U	No	16.6	U	No	94.7		Yes	145		Yes	194		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	19.2	U	No	19.2	U	No	60.6		Yes	128		Yes	195		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	21.4	U	No	21.4	U	No	38.6	J	Yes	124	J	Yes	210	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	18.1	U	No	18.1	U	No	123	J	Yes	177	J	Yes	232	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	20.6	U	No	20.6	U	No	224	J	Yes	286	J	Yes	347	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	16.8	U	No	16.8	U	No	99.6	J	Yes	150	J	Yes	200	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	18.5	U	No	18.5	U	No	59.3		Yes	124		Yes	189		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	18.7	U	No	18.7	U	No	18.7	U	No	18.7	U	No	18.7	U	No
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	25.5	U	No	100	J	Yes	271	J	Yes	348	J	Yes	424	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	20.2	U	No	20.2	U	No	73.2		Yes	144		Yes	215		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	15.8	U	No	15.8	U	No	61.3		Yes	117		Yes	172		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	18.5	U	No	18.5	U	No	18.5	U	No	18.5	U	No	18.5	U	No
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	42.2	UJ	No	42.2	UJ	No	42.2	UJ	No	42.2	UJ	No	42.2	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	19.4	U	No	19.4	U	No	104	J	Yes	172	J	Yes	240	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	19.5	U	No	19.5	U	No	123	J	Yes	182	J	Yes	240	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	43	UJ	No	43	UJ	No	43	UJ	No	43	UJ	No	43	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	19.3	U	No	51.2		Yes	189	J	Yes	237	J	Yes	286	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	15.3	U	No	15.3	U	No	18.6	J	Yes	79.8	J	Yes	141	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	15.6	U	No	15.6	U	No	340	J	Yes	395	J	Yes	450	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	17.2	U	No	17.2	U	No	41.4		Yes	110		Yes	179		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	17.9	U	No	17.9	U	No	26.9		Yes	98.5		Yes	170		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	42.5	UJ	No	42.5	UJ	No	83.5	J	Yes	254	J	Yes	424	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	36.5	UJ	No	36.5	UJ	No	245	J	Yes	373	J	Yes	501	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	16	U	No	16	U	No	16	U	No	16	U	No	16	U	No
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	35.1	UJ	No	35.1	UJ	No	35.1	UJ	No	35.1	UJ	No	35.1	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	17.7	U	No	17.7	U	No	17.7	U	No	17.7	U	No	17.7	U	No
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	16.8	U	No	16.8	U	No	16.8	U	No	16.8	U	No	16.8	U	No
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	52.4	UJ	No	52.4	UJ	No	252	J	Yes	436	J	Yes	619	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	20.2	U	No	20.2	U	No	34.7		Yes	116		Yes	196		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	16.5	U	No	16.5	U	No	16.5	U	No	16.5	U	No	16.5	U	No
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	16.2	U	No	16.2	U	No	23.8		Yes	88.6		Yes	153		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	24.9	U	No	24.9	U	No	125		Yes	212		Yes	299		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	17	U	No	17	U	No	17	U	No	17	U	No	17	U	No
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	16.4	U	No	16.4	U	No	16.4	U	No	16.4	U	No	16.4	U	No
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	16.3	U	No	16.3	U	No	16.3	U	No	16.3	U	No	16.3	U	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	SQT station	PCB-1 µg/kg			PCB-2 µg/kg			PCB-3 µg/kg			PCB-4 µg/kg		
									Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	No	0.858		Yes	0.357	J	Yes	0.485		Yes	5.37		Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	No	0.0698		Yes	0.0451	J	Yes	0.0765		Yes	0.295		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	No	0.0519	J	Yes	0.0213	J	Yes	0.0357	J	Yes	0.428	J	Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	No	7.93	J	Yes	0.864	J	Yes	5.17	J	Yes	36.1	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	No	1.72		Yes	0.194	J	Yes	0.551		Yes	4.85		Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	No	0.283	J	Yes	0.279	J	Yes	0.214	J	Yes	0.231	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	No	0.507	J	Yes	0.817		Yes	0.454		Yes	2.47	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	No	0.177		Yes	0.0717		Yes	0.192		Yes	0.521	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	No	0.363		Yes	0.157		Yes	0.326		Yes	0.983	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	No	0.941		Yes	0.821		Yes	0.869		Yes	4.78	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	No	0.124		Yes	0.104		Yes	0.165		Yes	0.338	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	No	0.174	J	Yes	0.0993	J	Yes	0.237	J	Yes	0.526	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	No	0.0386		Yes	0.0181		Yes	0.0577		Yes	0.0943	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	0.0462		Yes	0.0223		Yes	0.0614		Yes	0.127	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	0.138		Yes	0.0813		Yes	0.167		Yes	0.385	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	0.195		Yes	0.0957		Yes	0.25		Yes	0.571	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	0.144		Yes	0.0475		Yes	0.142		Yes	0.344	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	No	0.171		Yes	0.0618		Yes	0.222		Yes	0.391	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	No	0.027		Yes	0.0124		Yes	0.0652		Yes	0.043	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	No	0.0573	J	Yes	0.332	J	Yes	0.0915	J	Yes	0.186	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	No	0.165		Yes	0.05		Yes	0.203		Yes	0.399	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	No	0.191		Yes	0.0732		Yes	0.136		Yes	0.395	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	No	0.183	J	Yes	0.0661	J	Yes	0.157	J	Yes	0.29	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	No	0.266	J	Yes	0.157	J	Yes	0.546	J	Yes	0.395	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	No	0.1		Yes	0.0442		Yes	0.132		Yes	0.243	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	No	0.119		Yes	0.0278		Yes	0.124		Yes	0.441	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	0.168	J	Yes	0.142	J	Yes	0.529	J	Yes	0.0322	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	0.193		Yes	0.103		Yes	0.164		Yes	0.553	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	0.0464		Yes	0.0187		Yes	0.0501		Yes	0.0931	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	0.0948		Yes	0.0233		Yes	0.0788		Yes	0.742	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	0.123		Yes	0.0274		Yes	0.0476		Yes	0.184	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	0.0327		Yes	0.0131		Yes	0.0433		Yes	0.0808	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	0.242	J	Yes	0.095	J	Yes	0.316	J	Yes	0.591	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	0.47	J	Yes	0.697	J	Yes	0.38	J	Yes	0.236	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	0.00498		Yes	0.0028		Yes	0.00663		Yes	0.0163	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	0.13	J	Yes	0.0907	J	Yes	0.478	J	Yes	0.0463	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	0.0133		Yes	0.0077		Yes	0.0165		Yes	0.0618	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	0.00603		Yes	0.00388		Yes	0.01		Yes	0.0145	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	0.169	J	Yes	0.0593	J	Yes	0.231	J	Yes	0.896	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	0.145	J	Yes	0.0582	J	Yes	0.203	J	Yes	0.306	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	0.0522		Yes	0.00603		Yes	0.0261		Yes	0.118	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	0.16		Yes	0.0561		Yes	0.123		Yes	0.309	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	0.116		Yes	0.123		Yes	0.195		Yes	0.234	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	0.0252		Yes	0.00852		Yes	0.0277		Yes	0.0721	J	Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	0.0105		Yes	0.00285		Yes	0.0118		Yes	0.0304	J	Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	0.0476		Yes	0.0201		Yes	0.0613		Yes	0.118	J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-5 µg/kg			PCB-6 µg/kg			PCB-7 µg/kg			PCB-8 µg/kg			PCB-9 µg/kg	
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	0.0995	J	Yes	2.72		Yes	0.349	J	Yes	8.68		Yes	0.485	J
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	0.00653	J	Yes	0.229		Yes	0.0254	J	Yes	0.623		Yes	0.0396	J
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	0.00966	J	Yes	0.307		Yes	0.0287	J	Yes	0.832		Yes	0.0415	J
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	1.21	J	Yes	23.8	J	Yes	4.81	J	Yes	146	J	Yes	6.44	J
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	0.0869	J	Yes	2.54		Yes	0.291	J	Yes	7.53		Yes	0.414	J
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	0.0669	UJ	No	0.198	J	Yes	0.0647	UJ	No	0.396	J	Yes	0.065	UJ
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	0.096	J	Yes	1.94	J	Yes	0.21	J	Yes	5.37	J	Yes	0.357	J
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.0157		Yes	0.25		Yes	0.0353		Yes	0.839		Yes	0.0554	
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	0.0273		Yes	0.557		Yes	0.0598		Yes	1.53		Yes	0.0991	
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	0.145		Yes	4.91	J	Yes	0.389		Yes	10.4	J	Yes	0.642	
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	0.0107	J	Yes	0.248		Yes	0.0256		Yes	0.779		Yes	0.0418	
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.0147		Yes	0.212		Yes	0.0273		Yes	0.693		Yes	0.0425	
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.00377	U	No	0.0786		Yes	0.0101		Yes	0.297		Yes	0.0156	
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.00482		Yes	0.111		Yes	0.0124		Yes	0.367		Yes	0.0193	
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.0112		Yes	0.21		Yes	0.0299		Yes	0.695		Yes	0.046	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.0252	J	Yes	0.411		Yes	0.064	J	Yes	1.54		Yes	0.0971	J
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.00769		Yes	0.139		Yes	0.0222		Yes	0.408		Yes	0.0315	
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.0125		Yes	0.183		Yes	0.0266		Yes	0.598		Yes	0.0403	
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.00198	J	Yes	0.0336	J	Yes	0.00543	J	Yes	0.116	J	Yes	0.00763	J
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.00478	J	Yes	0.176	J	Yes	0.00929	J	Yes	0.352	J	Yes	0.0182	J
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.0143	J	Yes	0.26	J	Yes	0.0382	J	Yes	1.14	J	Yes	0.0579	J
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.0132	J	Yes	0.162	J	Yes	0.0265	J	Yes	0.508	J	Yes	0.0464	J
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.0142	J	Yes	0.192	J	Yes	0.0327	J	Yes	0.571	J	Yes	0.0521	J
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	0.0146	UJ	No	0.277	J	Yes	0.0338	J	Yes	1.23	J	Yes	0.0736	J
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.00661	J	Yes	0.112	J	Yes	0.0164	J	Yes	0.381	J	Yes	0.0289	J
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.015	J	Yes	0.35	J	Yes	0.039	J	Yes	1.14	J	Yes	0.0663	J
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.014	UJ	No	0.0232	J	Yes	0.0129	UJ	No	0.083	J	Yes	0.0174	J
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.0127		Yes	0.239		Yes	0.032		Yes	0.812		Yes	0.055	
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.00248		Yes	0.0475		Yes	0.0061		Yes	0.147		Yes	0.0102	
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.00675		Yes	0.107		Yes	0.0184		Yes	0.481		Yes	0.0294	
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.00552		Yes	0.0494		Yes	0.0105		Yes	0.168		Yes	0.0161	
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.00249		Yes	0.0313		Yes	0.00544		Yes	0.11		Yes	0.00829	
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	0.0209	J	Yes	0.292	J	Yes	0.0514	J	Yes	1.07	J	Yes	0.0827	J
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	0.0116	J	Yes	0.453	J	Yes	0.0252	J	Yes	0.449	J	Yes	0.0416	J
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.000509	J	Yes	0.00703		Yes	0.0012		Yes	0.0238		Yes	0.00187	
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.018	UJ	No	0.0259	J	Yes	0.0168	UJ	No	0.0834	J	Yes	0.0141	J
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.00196		Yes	0.0364		Yes	0.00487		Yes	0.11		Yes	0.00812	
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.000677	J	Yes	0.00857		Yes	0.00151		Yes	0.03		Yes	0.00282	
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	0.0282	J	Yes	0.375	J	Yes	0.0591	J	Yes	1.39	J	Yes	0.109	J
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.00728		Yes	0.104		Yes	0.0162		Yes	0.293		Yes	0.0274	
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.00323		Yes	0.0418		Yes	0.00669		Yes	0.185		Yes	0.0131	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.00861	J	Yes	0.188		Yes	0.0234		Yes	0.397		Yes	0.0377	
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.00763		Yes	0.17		Yes	0.0242		Yes	0.45		Yes	0.0368	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.00258		Yes	0.0342		Yes	0.00504		Yes	0.11		Yes	0.00996	
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.0013		Yes	0.0162		Yes	0.00294		Yes	0.0627		Yes	0.00512	
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.00376		Yes	0.0386		Yes	0.00713		Yes	0.125		Yes	0.0127	

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background		PCB-10 µg/kg			PCB-11 µg/kg			PCB-12 µg/kg		
								Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	Yes	0.281	J	Yes	12.7		Yes	1.22		Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	Yes	0.0181	J	Yes	1.28		Yes	0.157		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	Yes	0.0208	J	Yes	1.18		Yes	0.175		Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	Yes	1.42	J	Yes	9.78	J	Yes	6.83	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	Yes	0.217	J	Yes	1.56		Yes	0.303	J	Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	No	0.0699	UJ	No	2.85	J	Yes	0.117	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	Yes	0.137	J	Yes	19.3	J	Yes	1.12		Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	Yes	0.0371		Yes	1.67		Yes	0.185		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	Yes	0.0647		Yes	3.03		Yes	0.334		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	Yes	0.249		Yes	20.6	J	Yes	2.18		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	Yes	0.0208	J	Yes	3.13		Yes	0.185		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	Yes	0.0317	J	Yes	3.08		Yes	0.209		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	Yes	0.00701	J	Yes	0.765		Yes	0.0708		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	0.0072		Yes	0.539		Yes	0.0773		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	0.0213		Yes	1.42		Yes	0.117		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	0.0298		Yes	3.27	J	Yes	0.245		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	0.0195		Yes	1.08		Yes	0.113		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	Yes	0.0309		Yes	1.78		Yes	0.126		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	Yes	0.00259	EMPC-J	Yes	0.189	J	Yes	0.0291	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	Yes	0.00933	J	Yes	5.26	J	Yes	0.0966	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	Yes	0.0237	J	Yes	10.8	J	Yes	0.165	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	Yes	0.0337	J	Yes	1.73	J	Yes	0.114	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	Yes	0.0231	J	Yes	1.64	J	Yes	0.138	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	Yes	0.018	J	Yes	0.738	J	Yes	0.138	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	Yes	0.021	J	Yes	0.48	J	Yes	0.0791	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	Yes	0.0184	EMPC-J	Yes	0.476	J	Yes	0.122	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	0.00973	UJ	No	0.247	J	Yes	0.0501	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	0.0331		Yes	2.19		Yes	0.142		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	0.00654		Yes	0.591		Yes	0.0398		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	0.0224		Yes	0.465		Yes	0.0629		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	0.0115		Yes	0.547		Yes	0.0304		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	0.00504	J	Yes	0.237		Yes	0.0301		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	0.0358	J	Yes	1.67	J	Yes	0.252	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	0.0126	J	Yes	19.9	J	Yes	0.181	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	0.0015	J	Yes	0.112		Yes	0.00765		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	0.0114	UJ	No	0.219	J	Yes	0.0452	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	0.00404	J	Yes	0.182		Yes	0.0278		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	0.00128	J	Yes	0.158		Yes	0.00958		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	0.0605	J	Yes	1.85	J	Yes	0.271	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	0.02	J	Yes	0.393		Yes	0.0943		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	0.00472	J	Yes	0.051		Yes	0.0157		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	0.0212		Yes	0.324		Yes	0.0614		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	0.0165	J	Yes	2.38		Yes	0.114		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	0.0066	J	Yes	0.0763		Yes	0.0285		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	0.00546	J	Yes	0.0849		Yes	0.0135		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	0.0107	J	Yes	0.151		Yes	0.0278		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-13 µg/kg			PCB-14 µg/kg			PCB-15 µg/kg			PCB-16 µg/kg			PCB-17 µg/kg	
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes		C12		0.0395	U	No	6.87		Yes	8.43		Yes	13.2	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes		C12		0.00652	U	No	0.694		Yes	0.685		Yes	0.964	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes		C12		0.00877	U	No	0.87		Yes	0.794		Yes	0.991	
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes		C12		0.168	J	Yes	66.3	J	Yes	127	J	Yes	151	J
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes		C12		0.0495	U	No	3.09		Yes	3.43	J	Yes	3.75	J
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes		C12		0.0547	UJ	No	0.554	J	Yes	0.331	J	Yes	0.584	J
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes		C12		0.00413	U	No	5.25	J	Yes	6.15	J	Yes	7.51	J
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes		C12		0.00129	U	No	1.6		Yes	0.863		Yes	1.1	
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes		C12		0.00197	U	No	2.84		Yes	1.67		Yes	2.1	
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes		C12		0.00212	U	No	10.2	J	Yes	14.3	J	Yes	16.5	J
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes		C12		0.00281	U	No	1.48		Yes	0.828		Yes	1.12	
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes		C12		0.00244	U	No	1.68		Yes	0.93		Yes	1.36	
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes		C12		0.00318	U	No	0.639		Yes	0.302		Yes	0.44	
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes		C12		0.000155	U	No	0.664		Yes	0.392		Yes	0.477	
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes		C12		0.00188	U	No	1.31		Yes	0.4		Yes	1.01	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes		C12		0.00118		Yes	1.99		Yes	1.66		Yes	1.92	
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes		C12		0.000873	J	Yes	1.06		Yes	0.406		Yes	0.748	
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes		C12		0.00201	U	No	1.15		Yes	0.513		Yes	0.79	
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes		C12		0.00049	UJ	No	0.274	J	Yes	0.112		Yes	0.149	
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes		C12		0.00204	UJ	No	0.511	J	Yes	0.479	J	Yes	0.475	J
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes		C12		0.00129	J	Yes	1.58	J	Yes	0.505		Yes	0.726	
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes		C12		0.00122	J	Yes	1.17	J	Yes	0.559		Yes	0.656	
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes		C12		0.00097	J	Yes	1.27	J	Yes	0.472	J	Yes	0.665	J
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes		C12		0.0122	UJ	No	1.41	J	Yes	0.684	J	Yes	1.58	J
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes		C12		0.00185	J	Yes	0.676	J	Yes	0.468		Yes	0.529	
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes		C12		0.00143	UJ	No	0.866	J	Yes	1.23		Yes	1.33	
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes		C12		0.0115	UJ	No	0.534	J	Yes	0.0764	J	Yes	0.0771	J
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes		C12		0.00185	J	Yes	1.51		Yes	0.764		Yes	1.28	
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes		C12		0.000133	U	No	0.505		Yes	0.201		Yes	0.267	
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes		C12		0.000543	J	Yes	0.679		Yes	0.37		Yes	0.812	
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No		C12		0.000399	J	Yes	0.267		Yes	0.13		Yes	0.158	
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No		C12		0.000252	J	Yes	0.294		Yes	0.111		Yes	0.154	
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No		C12		0.00665	UJ	No	1.97	J	Yes	1.15	J	Yes	1.47	J
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No		C12		0.00688	J	Yes	0.773	J	Yes	0.392	J	Yes	0.485	J
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No		C12		0.000392	U	No	0.0899		Yes	0.0381		Yes	0.0471	
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No		C12		0.0152	UJ	No	0.535	J	Yes	0.0735	J	Yes	0.113	J
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No		C12		0.000231	U	No	0.269		Yes	0.12		Yes	0.179	
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No		C12		0.00018	J	Yes	0.117		Yes	0.0275		Yes	0.0369	
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No		C12		0.0073	UJ	No	2.43	J	Yes	1.66	J	Yes	1.91	J
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No		C12		0.00183		Yes	0.81		Yes	0.332		Yes	0.441	
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No		C12		0.000186	U	No	0.171		Yes	0.0703		Yes	0.0845	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No		C12		0.00804	U	No	0.635		Yes	0.159		Yes	0.34	
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		C12		0.000735	J	Yes	0.772		Yes	0.421		Yes	0.548	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No		C12		0.000534	J	Yes	0.391		Yes	0.123		Yes	0.149	
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No		C12		0.000199	U	No	0.183		Yes	0.0695		Yes	0.0702	
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No		C12		0.00116		Yes	0.303		Yes	0.155		Yes	0.172	

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background		PCB-18			PCB-19		
									µg/kg			µg/kg		
								Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	Yes	22.4		Yes	3.81		Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	Yes	1.68		Yes	0.227		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	Yes	1.94		Yes	0.273		Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	Yes	285	J	Yes	23.6	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	Yes	8.16	J	Yes	1.27	J	Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	Yes	1.19	J	Yes	0.139	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	Yes	13.2	J	Yes	1.66	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	Yes	1.94		Yes	0.398		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	Yes	3.79		Yes	0.65		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	Yes	30.3	J	Yes	3.62		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	Yes	1.98		Yes	0.28		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	Yes	2.08		Yes	0.386		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	Yes	0.756		Yes	0.136		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	0.841		Yes	0.126		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	1.51		Yes	0.301		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	3.64		Yes	0.429		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	1.06		Yes	0.263		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	Yes	1.3		Yes	0.283		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	Yes	0.262		Yes	0.0477		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	Yes	0.88	J	Yes	0.138	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	Yes	1.2		Yes	0.251		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	Yes	1.28		Yes	0.241		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	Yes	1.17	J	Yes	0.21	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	Yes	2.75	J	Yes	0.314	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	Yes	1.01		Yes	0.182		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	Yes	2.43		Yes	0.312		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	0.146	J	Yes	0.0252	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	2.11		Yes	0.4		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	0.463		Yes	0.102		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	0.879		Yes	0.49		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	0.293		Yes	0.0627		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	0.256		Yes	0.0615		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	2.45	J	Yes	0.39	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	0.875	J	Yes	0.102	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	0.0904		Yes	0.0247		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	0.181	J	Yes	0.0356	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	0.294		Yes	0.0649		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	0.0663		Yes	0.0196		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	3.48	J	Yes	0.661	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	0.775		Yes	0.177		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	0.156		Yes	0.029		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	0.516		Yes	0.132		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	0.906		Yes	0.185		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	0.283		Yes	0.0489		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	0.152		Yes	0.047		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	0.341		Yes	0.0736		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-20 µg/kg			PCB-21 µg/kg			PCB-22 µg/kg			PCB-23 µg/kg			PCB-24 µg/kg	
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	38.8		Yes	10.7		Yes	8.81		Yes	0.0251	U	No	0.374	J
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	3.68		Yes	0.975		Yes	0.88		Yes	0.0045	U	No	0.0216	J
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	3.41		Yes	1.05		Yes	0.885		Yes	0.00674	U	No	0.0221	J
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	387	J	Yes	218	J	Yes	122	J	Yes	0.261	J	Yes	3.89	J
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	6.24		Yes	2.43		Yes	1.86		Yes	0.0186	U	No	0.0456	J
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	2.17	J	Yes	0.526	J	Yes	0.575	J	Yes	0.0221	UJ	No	0.0436	UJ
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	21.8	J	Yes	6.77	J	Yes	6.46	J	Yes	0.0143		Yes	0.196	
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	3.91		Yes	0.887		Yes	0.961		Yes	0.00355	U	No	0.0374	
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	7.31		Yes	1.69		Yes	1.87		Yes	0.00445	U	No	0.0755	
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	43.1	J	Yes	12.9	J	Yes	12.3	J	Yes	0.0139		Yes	0.00108	U
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	4.17		Yes	1.05		Yes	1.07		Yes	0.00413	U	No	0.0397	EMPC-J
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	2.97		Yes	0.667		Yes	0.721		Yes	0.00305	U	No	0.043	
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	1.96		Yes	0.43		Yes	0.467		Yes	0.0034	U	No	0.0136	EMPC-J
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	1.75		Yes	0.5		Yes	0.489		Yes	0.000871	J	Yes	0.0171	
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	3.17		Yes	0.666		Yes	0.721		Yes	0.00165	U	No	0.187	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	6.65	J	Yes	2.23		Yes	1.96		Yes	0.00385		Yes	0.0672	
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	2.56		Yes	0.376		Yes	0.462		Yes	0.000808	EMPC-J	Yes	0.0232	
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	3.22		Yes	0.622		Yes	0.611		Yes	0.00253	U	No	0.0266	
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.63		Yes	0.144		Yes	0.154		Yes	0.000938	U	No	0.00582	
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	1.56	J	Yes	0.614	J	Yes	0.429	J	Yes	0.00427	UJ	No	0.0148	J
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	2.68		Yes	0.638		Yes	0.718		Yes	0.00206	U	No	0.0353	
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	2.2		Yes	0.422		Yes	0.514		Yes	0.00127	U	No	0.0311	
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	2.81	J	Yes	0.549	J	Yes	0.629	J	Yes	0.00186	UJ	No	0.0449	J
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	4.52	J	Yes	1.68	J	Yes	1.39	J	Yes	0.0094	UJ	No	0.428	J
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	1.97		Yes	0.52		Yes	0.503		Yes	0.00162	U	No	0.0248	
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	3.78		Yes	1.48		Yes	1.17		Yes	0.00234	U	No	0.04	
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.325	J	Yes	0.0871	J	Yes	0.0857	J	Yes	0.0168	UJ	No	0.00956	UJ
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	3.68		Yes	0.92		Yes	0.956		Yes	0.00191	U	No	0.137	
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.987		Yes	0.186		Yes	0.22		Yes	0.000483	J	Yes	0.00995	
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	1.51		Yes	0.377		Yes	0.374		Yes	0.000664	J	Yes	0.0191	
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.62		Yes	0.152		Yes	0.163		Yes	0.00047	U	No	0.00768	
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.589		Yes	0.114		Yes	0.147		Yes	0.000359	J	Yes	0.00572	
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	5.41	J	Yes	1.64	J	Yes	1.52	J	Yes	0.00624	UJ	No	0.0459	J
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	2.2	J	Yes	0.63	J	Yes	0.545	J	Yes	0.00508	UJ	No	0.0285	J
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.227		Yes	0.0374		Yes	0.055		Yes	0.00034	U	No	0.00278	
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.471	J	Yes	0.101	J	Yes	0.125	J	Yes	0.00425	UJ	No	0.01	EMPC-J
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.708		Yes	0.152		Yes	0.171		Yes	0.000259	U	No	0.00707	
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.196		Yes	0.0344		Yes	0.0421		Yes	0.000319	J	Yes	0.00252	
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	7.1	J	Yes	2.14	J	Yes	2.09	J	Yes	0.00728	J	Yes	0.0995	J
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.923		Yes	0.156		Yes	0.232		Yes	0.000566	J	Yes	0.0187	
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.325		Yes	0.0717		Yes	0.0912		Yes	0.000257	U	No	0.00346	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	1.08		Yes	0.206		Yes	0.266		Yes	0.00126	U	No	0.0587	
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	1.9		Yes	0.49		Yes	0.5		Yes	0.00101	U	No	0.0207	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.657		Yes	0.117		Yes	0.165		Yes	0.000453	J	Yes	0.00799	
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.349		Yes	0.088		Yes	0.0884		Yes	0.000283	U	No	0.0154	
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.562		Yes	0.103		Yes	0.145		Yes	0.000318	U	No	0.00922	

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background		PCB-25			PCB-26			PCB-27		
									µg/kg			µg/kg			µg/kg		
								Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	Yes	7.66		Yes	8.28		Yes	1.78		Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	Yes	0.534		Yes	0.66		Yes	0.148		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	Yes	0.426		Yes	0.575		Yes	0.176		Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	Yes	27.5	J	Yes	57.3	J	Yes	18.1	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	Yes	0.633		Yes	1.09		Yes	0.53	J	Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	No	0.207	J	Yes	0.341	J	Yes	0.106	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	Yes	4.12	J	Yes	4.28	J	Yes	1.15	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	Yes	0.482		Yes	0.598		Yes	0.255		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	Yes	0.944		Yes	1.24		Yes	0.436		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	No	9.06	J	Yes	10	J	Yes	2.34		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	Yes	0.56		Yes	0.683		Yes	0.209		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	Yes	0.408		Yes	0.448		Yes	0.27		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	Yes	0.276		Yes	0.306		Yes	0.1		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	0.2		Yes	0.272		Yes	0.091		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	0.402		Yes	0.535		Yes	0.169		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	0.758		Yes	1.14		Yes	0.307		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	0.365		Yes	0.333		Yes	0.13		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	Yes	0.354		Yes	0.377		Yes	0.152		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	Yes	0.0785		Yes	0.0949		Yes	0.0325		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	Yes	0.161	J	Yes	0.249	J	Yes	0.0876	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	Yes	0.329		Yes	0.408		Yes	0.144		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	Yes	0.226		Yes	0.341		Yes	0.163		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	Yes	0.369	J	Yes	0.451	J	Yes	0.138	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	Yes	0.44	J	Yes	0.756	J	Yes	0.234	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	Yes	0.209		Yes	0.314		Yes	0.114		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	Yes	0.447		Yes	0.673		Yes	0.197		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	No	0.0323	J	Yes	0.0572	J	Yes	0.0178	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	0.371		Yes	0.644		Yes	0.243		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	0.105		Yes	0.143		Yes	0.0617		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	0.155		Yes	0.227		Yes	0.152		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	0.0645		Yes	0.0983		Yes	0.0379		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	0.079		Yes	0.105		Yes	0.0389		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	0.594	J	Yes	0.968	J	Yes	0.29	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	0.567	J	Yes	0.93	J	Yes	0.0844	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	0.0253		Yes	0.0375		Yes	0.0159		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	0.0497	J	Yes	0.0858	J	Yes	0.028	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	0.0962		Yes	0.111		Yes	0.0413		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	0.0213		Yes	0.0283		Yes	0.012		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	0.697	J	Yes	1.18	J	Yes	0.432	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	0.117		Yes	0.145		Yes	0.105		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	0.0257		Yes	0.0453		Yes	0.0209		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	0.117		Yes	0.219		Yes	0.0702		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	0.285		Yes	0.377		Yes	0.114		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	0.0665		Yes	0.109		Yes	0.0355		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	0.0385		Yes	0.0528		Yes	0.0297		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	0.0553		Yes	0.0915		Yes	0.0528		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-28 µg/kg			PCB-29 µg/kg			PCB-30 µg/kg			PCB-31 µg/kg		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes		C20			C26			C18		28.3		Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes		C20			C26			C18		2.48		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes		C20			C26			C18		2.42		Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes		C20			C26			C18		308	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes		C20			C26			C18		4.9		Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes		C20			C26			C18		1.51	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes		C20			C26			C18		16.3	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes		C20			C26			C18		2.45		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes		C20			C26			C18		4.77	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes		C20			C26			C18		32	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes		C20			C26			C18		2.74		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes		C20			C26			C18		1.8		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes		C20			C26			C18		1.21		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes		C20			C26			C18		1.15		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes		C20			C26			C18		1.98		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes		C20			C26			C18		4.8	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes		C20			C26			C18		1.43		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes		C20			C26			C18		1.66		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes		C20			C26			C18		0.39		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes		C20			C26			C18		1.11	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes		C20			C26			C18		1.77		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes		C20			C26			C18		1.37		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes		C20			C26			C18		1.76	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes		C20			C26			C18		3.46	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes		C20			C26			C18		1.31		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes		C20			C26			C18		2.87		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes		C20			C26			C18		0.217	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes		C20			C26			C18		2.4		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes		C20			C26			C18		0.572		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes		C20			C26			C18		1.02		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No		C20			C26			C18		0.411		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No		C20			C26			C18		0.374		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No		C20			C26			C18		3.93	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No		C20			C26			C18		1.53	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No		C20			C26			C18		0.141		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No		C20			C26			C18		0.305	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No		C20			C26			C18		0.427		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No		C20			C26			C18		0.107		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No		C20			C26			C18		5.01	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No		C20			C26			C18		0.577		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No		C20			C26			C18		0.202		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No		C20			C26			C18		0.68		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		C20			C26			C18		1.24		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No		C20			C26			C18		0.425		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No		C20			C26			C18		0.256		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No		C20			C26			C18		0.35		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-32 µg/kg			PCB-33 µg/kg			PCB-34 µg/kg			PCB-35 µg/kg			P
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	14		Yes		C21		0.195	J	Yes	1.04		Yes	0.0246
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	0.986		Yes		C21		0.0136	J	Yes	0.156		Yes	0.0044
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	0.667	J	Yes		C21		0.0142	J	Yes	0.0976		Yes	0.00659
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	84.2	J	Yes		C21		2.47	J	Yes	5.02	J	Yes	0.213
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	1.11	J	Yes		C21		0.041	J	Yes	0.117	J	Yes	0.0182
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	0.237	J	Yes		C21		0.0217	UJ	No	0.607	J	Yes	0.0216
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	5.79	J	Yes		C21		0.132	J	Yes	1.95	J	Yes	0.0144
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	1.32		Yes		C21		0.0131		Yes	0.164		Yes	0.0035
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	2.41		Yes		C21		0.0308		Yes	0.266		Yes	0.00438
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	14.5	J	Yes		C21		0.267		Yes	3.16		Yes	0.045
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	1.23		Yes		C21		0.0192		Yes	0.931		Yes	0.00404
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	1.58		Yes		C21		0.00849		Yes	0.491		Yes	0.00298
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.628		Yes		C21		0.00674		Yes	0.0756		Yes	0.00333
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.479		Yes		C21		0.00825		Yes	0.0721		Yes	0.00163
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.851		Yes		C21		0.0113		Yes	0.111		Yes	0.00258
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	1.66		Yes		C21		0.0302		Yes	0.282		Yes	0.00302
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	1.01		Yes		C21		0.00999		Yes	0.081		Yes	0.00118
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	1.47		Yes		C21		0.00889		Yes	0.104		Yes	0.00248
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.176		Yes		C21		0.00248		Yes	0.0255		Yes	0.000911
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.397	J	Yes		C21		0.0074	J	Yes	0.964	J	Yes	0.00422
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.902		Yes		C21		0.0106		Yes	0.294		Yes	0.0234
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.884		Yes		C21		0.00695		Yes	0.0815		Yes	0.00152
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.988	J	Yes		C21		0.0096	J	Yes	0.109	J	Yes	0.00181
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	1.16	J	Yes		C21		0.0207	J	Yes	0.174	J	Yes	0.00927
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.571		Yes		C21		0.00937		Yes	0.0651		Yes	0.00548
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.995		Yes		C21		0.024		Yes	0.0769		Yes	0.00227
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.086	J	Yes		C21		0.0173	UJ	No	0.062	J	Yes	0.0167
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.131		Yes		C21		0.0146		Yes	0.173		Yes	0.00544
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.339		Yes		C21		0.00342		Yes	0.0407		Yes	0.00071
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.605		Yes		C21		0.00524		Yes	0.0414		Yes	0.00117
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.158		Yes		C21		0.00229		Yes	0.105		Yes	0.00125
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.198		Yes		C21		0.00219		Yes	0.0291		Yes	0.000997
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	1.32	J	Yes		C21		0.0201	J	Yes	0.293	J	Yes	0.00791
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	0.434	J	Yes		C21		0.0167	J	Yes	4.72	J	Yes	0.0215
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.0661		Yes		C21		0.000711	J	Yes	0.0124		Yes	0.000312
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.128	J	Yes		C21		0.00428	UJ	No	0.0576	J	Yes	0.00409
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.232		Yes		C21		0.00271		Yes	0.0345		Yes	0.000875
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.058		Yes		C21		0.000588	J	Yes	0.00923		Yes	0.000315
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	1.93	J	Yes		C21		0.0216	J	Yes	0.322	J	Yes	0.0136
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.521		Yes		C21		0.00331		Yes	0.0345		Yes	0.00139
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.0886		Yes		C21		0.000779	J	Yes	0.00724		Yes	0.000268
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.21		Yes		C21		0.00357		Yes	0.0367		Yes	0.00271
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.636		Yes		C21		0.00899		Yes	0.343		Yes	0.00553
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.178		Yes		C21		0.00261		Yes	0.0136		Yes	0.000453
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.104		Yes		C21		0.00087		Yes	0.0113		Yes	0.000276
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.248		Yes		C21		0.00209		Yes	0.0136		Yes	0.000311

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	CB-36 µg/kg			PCB-37 µg/kg			PCB-38 µg/kg			PCB-39 µg/kg			PCB-40 µg/kg		
								Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	U	No	7.11		Yes	0.0259	U	No	0.144	J	Yes	21		Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	U	No	0.921		Yes	0.00464	U	No	0.0145	J	Yes	1.71		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	U	No	0.83		Yes	0.00696	U	No	0.0118	J	Yes	1.57		Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	UJ	No	90.6	J	Yes	0.224	UJ	No	0.199	UJ	No	115	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	U	No	1.37		Yes	0.0192	U	No	0.0171	U	No	1.91		Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	UJ	No	0.667	J	Yes	0.0228	UJ	No	0.0202	UJ	No	1.46	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes		Yes	6.57	J	Yes	0.00889	U	No	0.12		Yes	10	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	U	No	1.44		Yes	0.00368	U	No	0.0137		Yes	1.72		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	U	No	2.58		Yes	0.00461	U	No	0.0282		Yes	2.87		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes		Yes	11.3	J	Yes	0.0181		Yes	0.202		Yes	15.9	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	U	No	1.54		Yes	0.00427	U	No	0.0208		Yes	1.89		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	U	No	1.35		Yes	0.00315	U	No	0.0122		Yes	0.948		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	U	No	0.686		Yes	0.00352	U	No	0.00864		Yes	0.842		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes		Yes	0.821		Yes	0.000485	U	No	0.00864		Yes	0.982		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes		Yes	1.16		Yes	0.00165	U	No	0.00984		Yes	1.63		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	J	Yes	2.47		Yes	0.00131	U	No	0.026	J	Yes	2.79	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes		Yes	0.829		Yes	0.000665	U	No	0.00742		Yes	1.37		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	U	No	0.981		Yes	0.00262	U	No	0.0105		Yes	3.35		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	U	No	0.291		Yes	0.000949	U	No	0.00213		Yes	0.384		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	UJ	No	0.611	J	Yes	0.00444	UJ	No	0.00402	UJ	No	1.15	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes		Yes	1.07		Yes	0.00208	U	No	0.00999		Yes	1.16		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	EMPC-J	Yes	0.892		Yes	0.00204	EMPC-J	Yes	0.00809		Yes	0.95		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	UJ	No	1.07	J	Yes	0.00188	UJ	No	0.00958	J	Yes	1.27	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	UJ	No	1.58	J	Yes	0.00977	UJ	No	0.0164	J	Yes	1.58	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes		Yes	0.74		Yes	0.00169	U	No	0.00995		Yes	0.821		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	U	No	1.2		Yes	0.00245	U	No	0.0157		Yes	1.57		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	UJ	No	0.164	J	Yes	0.0173	UJ	No	0.0159	UJ	No	0.161	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes		Yes	1.41		Yes	0.00199	U	No	0.0122		Yes	1.39	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	J	Yes	0.451		Yes	0.000317	U	No	0.00312		Yes	0.567		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes		Yes	0.541		Yes	0.000395	U	No	0.0047		Yes	0.815		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No		Yes	0.28		Yes	0.000499	U	No	0.00265		Yes	0.362		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No		Yes	0.317	J	Yes	0.00024	U	No	0.00277		Yes	0.418		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	J	Yes	2.29	J	Yes	0.00641	UJ	No	0.0284	J	Yes	2.58	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	J	Yes	0.917	J	Yes	0.00522	UJ	No	0.0213	J	Yes	1.37	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	U	No	0.108	J	Yes	0.000341	U	No	0.000948	J	Yes	0.146		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	UJ	No	0.215	J	Yes	0.00437	UJ	No	0.00393	UJ	No	0.261	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	J	Yes	0.3	J	Yes	0.00027	U	No	0.00321		Yes	0.521		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	J	Yes	0.105	J	Yes	0.000146	U	No	0.000829		Yes	0.131		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	J	Yes	2.92	J	Yes	0.00477	UJ	No	0.0344	J	Yes	2.91	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No		Yes	0.495	J	Yes	0.000476	U	No	0.00364		Yes	0.549		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	J	Yes	0.124	J	Yes	0.000268	U	No	0.000885	J	Yes	0.111		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No		Yes	0.447		Yes	0.00126	U	No	0.00113	U	No	0.487		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		Yes	0.771		Yes	0.00104	U	No	0.0107		Yes	1.4		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	EMPC-J	Yes	0.306		Yes	0.000479	EMPC-J	Yes	0.00264		Yes	0.307		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	U	No	0.166		Yes	0.000293	U	No	0.00239		Yes	0.424		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	U	No	0.23		Yes	0.00033	U	No	0.00207		Yes	0.232		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-41 µg/kg			PCB-42 µg/kg			PCB-43 µg/kg			PCB-44 µg/kg			PCB-45 µg/kg	
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes		C40		8.4		Yes	0.656	J	Yes	51		Yes	21.3	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes		C40		0.774		Yes	0.141		Yes	5.02		Yes	1.8	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes		C40		0.769		Yes	0.0571	J	Yes	4.08		Yes	1.46	
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes		C40		60	J	Yes	7.67	J	Yes	189	J	Yes	45.1	J
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes		C40		0.9		Yes	0.0921	J	Yes	4.12		Yes	1.63	
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes		C40		0.712	J	Yes	0.0619	J	Yes	3.16	J	Yes	0.673	J
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	1.06	J	Yes	5.73	J	Yes	0.684	J	Yes	22.9	J	Yes	2.42	J
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.207		Yes	0.936		Yes	0.106		Yes	4.9		Yes	0.438	
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	0.359		Yes	1.55		Yes	0.172		Yes	7.79		Yes	0.609	
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	1.92		Yes	9.44	J	Yes	0.916		Yes	39.5	J	Yes	4.12	J
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	0.179		Yes	1.05		Yes	0.108		Yes	5.68		Yes	0.415	
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.0935		Yes	0.479		Yes	0.0462		Yes	2.98		Yes	0.187	
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.0818		Yes	0.461		Yes	0.0513		Yes	2.23		Yes	0.198	
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.107		Yes	0.54		Yes	0.0646		Yes	2.47		Yes	0.228	
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.189		Yes	0.911		Yes	0.0906		Yes	4.54		Yes	0.424	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.331		Yes	1.67	J	Yes	0.234	J	Yes	6.64	J	Yes	0.786	J
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.0719		Yes	0.638		Yes	0.0548		Yes	3.76		Yes	0.209	
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.117		Yes	1.51		Yes	0.0723		Yes	9.41		Yes	0.00139	U
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.0389		Yes	0.205		Yes	0.0197		Yes	1.12		Yes	0.0702	
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.00291	UJ	No	0.7	J	Yes	0.00291	UJ	No	2.81	J	Yes	0.247	J
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.126		Yes	0.598		Yes	0.063		Yes	3.61		Yes	0.235	
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.109		Yes	0.498		Yes	0.0479		Yes	2.47		Yes	0.236	
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.137	J	Yes	0.698	J	Yes	0.0571	J	Yes	3.83	J	Yes	0.25	J
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	0.265	J	Yes	0.998	J	Yes	0.132	J	Yes	3.64	J	Yes	0.493	J
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.107		Yes	0.475		Yes	0.0567		Yes	2.25		Yes	0.257	
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.194		Yes	0.878		Yes	0.112		Yes	4.85		Yes	0.426	
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.0318	J	Yes	0.105	J	Yes	0.0135	J	Yes	0.337	J	Yes	0.0382	J
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.172	J	Yes	0.77	J	Yes	0.0706	J	Yes	3.73	J	Yes	0.322	J
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.0536		Yes	0.317		Yes	0.0299		Yes	1.54		Yes	0.11	
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.101		Yes	0.443		Yes	0.0472		Yes	2.04		Yes	0.207	
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.0436		Yes	0.218		Yes	0.0249		Yes	0.858		Yes	0.0918	
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.0465		Yes	0.225		Yes	0.0214		Yes	1.27		Yes	0.0688	
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	0.493	J	Yes	1.53	J	Yes	0.205	J	Yes	5.86	J	Yes	0.777	J
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	0.141	J	Yes	0.882	J	Yes	0.0825	J	Yes	4.38	J	Yes	0.29	J
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.0189		Yes	0.0809		Yes	0.00792		Yes	0.311		Yes	0.0412	
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.0432	J	Yes	0.16	J	Yes	0.0161	EMPC-J	Yes	0.575	J	Yes	0.075	J
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.0672		Yes	0.277		Yes	0.0281		Yes	1.21		Yes	0.0999	
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.015		Yes	0.0737		Yes	0.00697		Yes	0.278		Yes	0.0376	
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	0.626	J	Yes	1.74	J	Yes	0.243	J	Yes	6.58	J	Yes	0.976	J
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.0478		Yes	0.296		Yes	0.0265		Yes	1.13		Yes	0.0984	
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.0185		Yes	0.0657		Yes	0.0075		Yes	0.234		Yes	0.0387	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.065		Yes	0.299		Yes	0.036		Yes	1.01		Yes	0.182	
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.124		Yes	0.64		Yes	0.0589		Yes	3		Yes	0.259	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.0397		Yes	0.173		Yes	0.0221		Yes	0.624		Yes	0.103	
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.0275		Yes	0.208		Yes	0.0212		Yes	1.92		Yes	0.124	
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.0351		Yes	0.128		Yes	0.0165		Yes	0.485		Yes	0.0924	

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background		PCB-46			PCB-47			PCB-48		
									µg/kg			µg/kg			µg/kg		
								Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	Yes	4.6		Yes		C44		3.49		Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	Yes	0.227		Yes		C44		0.416		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	Yes	0.247		Yes		C44		0.448		Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	Yes	15.2	J	Yes		C44		55.1	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	Yes	0.314	J	Yes		C44		0.522		Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	Yes	0.166	J	Yes		C44		0.371	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	Yes	1.52	J	Yes		C44		3.66	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	Yes	0.336		Yes		C44		0.492		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	Yes	0.506		Yes		C44		0.849		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	Yes	3.03		Yes		C44		5.58	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	Yes	0.291		Yes		C44		0.558		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	Yes	0.149		Yes		C44		0.222		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	Yes	0.16		Yes		C44		0.228		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	0.145		Yes		C44		0.306		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	0.309		Yes		C44		0.454		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	0.449	J	Yes		C44		1.08	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	0.238		Yes		C44		0.237		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	No	0.391		Yes		C44		0.278		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	Yes	0.0607		Yes		C44		0.0911		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	Yes	0.147	J	Yes		C44		0.332	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	Yes	0.184		Yes		C44		0.3		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	Yes	0.166		Yes		C44		0.258		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	Yes	0.244	J	Yes		C44		0.287	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	Yes	0.231	J	Yes		C44		0.66	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	Yes	0.141		Yes		C44		0.268		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	Yes	0.221		Yes		C44		0.54		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	0.0212	J	Yes		C44		0.0563	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	0.221	J	Yes		C44		0.43	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	0.103		Yes		C44		0.142		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	0.137		Yes		C44		0.238		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	0.0535		Yes		C44		0.112		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	0.0588		Yes		C44		0.106		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	0.317	J	Yes		C44		0.972	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	0.124	J	Yes		C44		0.416	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	0.0241		Yes		C44		0.0386		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	0.0332	EMPC-J	Yes		C44		0.0855	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	0.0799		Yes		C44		0.129		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	0.0217		Yes		C44		0.0306		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	0.416	J	Yes		C44		1.09	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	0.0805		Yes		C44		0.118		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	0.0164		Yes		C44		0.0349		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	0.0831		Yes		C44		0.137		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	0.177		Yes		C44		0.299		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	0.0436		Yes		C44		0.0929		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	0.0562		Yes		C44		0.0965		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	0.0368		Yes		C44		0.0702		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-49 µg/kg			PCB-50 µg/kg			PCB-51 µg/kg			PCB-52 µg/kg			PCB-53 µg/kg	
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	40.5		Yes	18.1		Yes		C45		41.7		Yes		C50
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	2.73		Yes	0.886		Yes		C45		3.23		Yes		C50
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	2.03		Yes	0.758		Yes		C45		2.98		Yes		C50
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	122	J	Yes	29.5	J	Yes		C45		191	J	Yes		C50
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	2.36		Yes	0.909		Yes		C45		3.59		Yes		C50
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	2.09	J	Yes	0.469	J	Yes		C45		4.05	J	Yes		C50
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	14.3	J	Yes	3.74	J	Yes	2.41		Yes	28.8	J	Yes		C50
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	2.64		Yes	1.16		Yes	1.6		Yes	3.98	J	Yes		C50
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	4.4		Yes	1.77		Yes	2.58		Yes	6.33	J	Yes		C50
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	25.2	J	Yes	8.19	J	Yes	7.63	J	Yes	32.1	J	Yes		C50
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	3.18		Yes	0.983		Yes	1.31		Yes	4.73	J	Yes		C50
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	1.48		Yes	0.549		Yes	0.801		Yes	1.86		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	1.25		Yes	0.511		Yes	0.573		Yes	1.84		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	1.36		Yes	0.427		Yes	0.522		Yes	1.96		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	2.78		Yes	1.07		Yes	1.29		Yes	3.65	J	Yes		C50
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	3.99	J	Yes	1.14	J	Yes	0.903		Yes	6.57	J	Yes		C50
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	2.25		Yes	0.897		Yes	1.2		Yes	2.46		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	6.09		Yes	2.3		Yes	3.05		Yes	2.74		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.575		Yes	0.224		Yes	0.356		Yes	0.764		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	1.86	J	Yes	0.35	J	Yes	0.232	J	Yes	4.43	J	Yes		C50
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	1.77		Yes	0.735		Yes	1.13		Yes	2.31		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	1.39		Yes	0.612		Yes	0.754		Yes	2.05		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	2.24	J	Yes	0.964	J	Yes	1.28	J	Yes	2.9	J	Yes		C50
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	2.4	J	Yes	0.531	J	Yes	0.352	J	Yes	4.09	J	Yes		C50
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	1.31		Yes	0.468		Yes	0.536		Yes	2		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	2.49		Yes	0.691		Yes	0.887		Yes	3.25		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.223	J	Yes	0.0547	J	Yes	0.042	J	Yes	0.413	J	Yes		C50
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	2.29	J	Yes	0.78	J	Yes	1.19	J	Yes	3.14	J	Yes		C50
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.83		Yes	0.347		Yes	0.517		Yes	1.15		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	1.14		Yes	0.571		Yes	0.642		Yes	1.84		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.537		Yes	0.149		Yes	0.14		Yes	0.935		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.62		Yes	0.236		Yes	0.283		Yes	0.925		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	3.72	J	Yes	0.838	J	Yes	0.501	J	Yes	6.98	J	Yes		C50
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	3.76	J	Yes	0.314	J	Yes	0.108	J	Yes	8.4	J	Yes		C50
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.187		Yes	0.0764		Yes	0.0395		Yes	0.423		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.396	J	Yes	0.0893	J	Yes	0.0583	J	Yes	0.69	J	Yes		C50
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.726		Yes	0.252		Yes	0.265		Yes	1.13		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.172		Yes	0.0626		Yes	0.0456		Yes	0.321		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	3.98	J	Yes	1.03	J	Yes	0.574	J	Yes	7.58	J	Yes		C50
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.682		Yes	0.248		Yes	0.244		Yes	1.08		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.142		Yes	0.0423		Yes	0.0203		Yes	0.276		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.765		Yes	0.213		Yes	0.0812		Yes	1.38		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	2.17		Yes	0.795		Yes	1.22		Yes	3.16		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.373		Yes	0.104		Yes	0.0435		Yes	0.746		Yes		C50
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.917		Yes	0.182		Yes	0.0471		Yes	4.87	J	Yes		C50
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.284		Yes	0.0853		Yes	0.0292		Yes	0.706		Yes		C50

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background		PCB-54			PCB-55			PCB-56			PCB-57		
									µg/kg			µg/kg			µg/kg			µg/kg		
								Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes		2.07		Yes	0.238	J	Yes	6.02		Yes	0.105	J	Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes		0.182		Yes	0.0401	J	Yes	0.961		Yes	0.0126	J	Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes		0.096		Yes	0.0596		Yes	0.895		Yes	0.00963	U	No
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes		0.349	UJ	No	5.12	J	Yes	94.6	J	Yes	1.21	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes		0.067	U	No	0.0202	U	No	0.986		Yes	0.0192	U	No
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes		0.087	UJ	No	0.0288	UJ	No	0.963	J	Yes	0.0274	UJ	No
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes		0.276		Yes	0.345	J	Yes	7.3	J	Yes	0.0921		Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes		0.194		Yes	0.0633		Yes	1.13		Yes	0.00949		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes		0.365		Yes	0.0702		Yes	1.96		Yes	0.0243		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes		1.04		Yes	0.399		Yes	10.7	J	Yes	0.187		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes		0.152		Yes	0.0505		Yes	1.55		Yes	0.0199		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes		0.23		Yes	0.0375		Yes	0.691		Yes	0.00677		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes		0.073		Yes	0.0243		Yes	0.612		Yes	0.00746		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes		0.05		Yes	0.0224		Yes	0.627		Yes	0.00663		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes		0.148		Yes	2.12		Yes	0.905		Yes	0.00886		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes		0.087		Yes	0.188	J	Yes	2.09		Yes	0.0186		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes		0.14		Yes	0.0248		Yes	0.584		Yes	0.00622		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes		0.466		Yes	0.0466		Yes	0.703		Yes	0.0102		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes		0.039		Yes	0.00943		Yes	0.246		Yes	0.00357		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes		0.017	J	Yes	0.0138	UJ	No	0.752	J	Yes	0.0133	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes		0.132		Yes	0.0241		Yes	0.774		Yes	0.0111		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes		0.101		Yes	0.0152		Yes	0.532		Yes	0.0058		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes		0.162	J	Yes	0.023	J	Yes	0.784	J	Yes	0.0156	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes		0.036	J	Yes	0.046	J	Yes	1.34	J	Yes	0.0125	EMPC-J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes		0.068		Yes	0.0171		Yes	0.621		Yes	0.0102		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes		0.09		Yes	0.0272	EMPC-J	Yes	1.21		Yes	0.0166		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes		0.009	UJ	No	0.0135	UJ	No	0.124	J	Yes	0.0133	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes		0.179		Yes	0.0294	J	Yes	1.06	J	Yes	0.0105	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes		0.055		Yes	0.00887		Yes	0.336		Yes	0.00345		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes		0.095		Yes	0.0146		Yes	0.473		Yes	0.00418		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No		0.012		Yes	0.00939		Yes	0.262		Yes	0.00266		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No		0.035		Yes	0.008		Yes	0.241		Yes	0.00242		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No		0.055	J	Yes	0.0649	J	Yes	1.95	J	Yes	0.0275	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No		0.01	J	Yes	0.0668	J	Yes	1.32	J	Yes	0.0882	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No		0.005		Yes	0.00301		Yes	0.0882		Yes	0.00108		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No		0.005	J	Yes	0.00607	EMPC-J	Yes	0.166	J	Yes	0.00428	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No		0.029		Yes	0.00803		Yes	0.268		Yes	0.00445		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No		0.005		Yes	0.0028		Yes	0.0865		Yes	0.00087		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No		0.066	J	Yes	0.0882	J	Yes	2.12	J	Yes	0.0257	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No		0.053		Yes	0.000672	U	No	0.363		Yes	0.003		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No		0.002		Yes	0.00355		Yes	0.0818		Yes	0.000932		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No		0.008		Yes	0.0101	EMPC-J	Yes	0.313		Yes	0.00276		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		0.194		Yes	0.0224		Yes	0.732		Yes	0.0138		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No		0.003		Yes	0.00595		Yes	0.19		Yes	0.00212		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No		0.003		Yes	0.000985	U	No	0.45		Yes	0.000986	U	No
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No		0.003		Yes	0.00572		Yes	0.16		Yes	0.00173		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-58 µg/kg			PCB-59 µg/kg			PCB-60 µg/kg			PCB-61 µg/kg			PCB-62 µg/kg	
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	0.109	J	Yes	2.88		Yes	2.35		Yes	27.5		Yes		C59
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	0.00556	U	No	0.306		Yes	0.356		Yes	3.78		Yes		C59
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	0.00958	U	No	0.291		Yes	0.355		Yes	3.36		Yes		C59
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	0.39	J	Yes	21	J	Yes	18.3	J	Yes	318	J	Yes		C59
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	0.0191	U	No	0.354	J	Yes	0.284	J	Yes	3.74		Yes		C59
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	0.0273	UJ	No	0.249	J	Yes	0.376	J	Yes	5.3	J	Yes		C59
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	0.068		Yes	1.66	J	Yes	2.42	J	Yes	30.6	J	Yes		C59
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.0134		Yes	0.372		Yes	0.423		Yes	3.99		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	0.0215		Yes	0.593		Yes	0.661		Yes	6.91		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	0.129		Yes	2.93		Yes	2.57		Yes	36.8	J	Yes		C59
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	0.0187		Yes	0.381		Yes	0.474		Yes	6.06		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.00647		Yes	0.194		Yes	0.263		Yes	2.39		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.00595		Yes	0.172		Yes	0.226		Yes	2		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.00638		Yes	0.201		Yes	0.197		Yes	2.12		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.0111		Yes	0.318		Yes	0.326		Yes	3.32		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.0241	J	Yes	0.537	J	Yes	0.733		Yes	7.5		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.00935		Yes	0.22		Yes	0.215		Yes	2.34		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.0425		Yes	0.386		Yes	0.247		Yes	3.09		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.00231	EMPC-J	Yes	0.0755		Yes	0.0926		Yes	0.862		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.0132	UJ	No	0.2	J	Yes	0.222	J	Yes	4.01	J	Yes		C59
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.00747		Yes	0.229		Yes	0.289		Yes	2.8		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.0053		Yes	0.189		Yes	0.203		Yes	2.03		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.0108	J	Yes	0.249	J	Yes	0.3	J	Yes	2.98	J	Yes		C59
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	0.0142	EMPC-J	Yes	0.299	J	Yes	0.43	J	Yes	4.77	J	Yes		C59
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.00715		Yes	0.17		Yes	0.225		Yes	2.18		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.0102		Yes	0.31		Yes	0.391		Yes	4.15		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.0132	UJ	No	0.034	J	Yes	0.049	J	Yes	0.412	J	Yes		C59
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.00837	J	Yes	0.282	J	Yes	0.406	J	Yes	3.79	J	Yes		C59
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.00402		Yes	0.117		Yes	0.122		Yes	1.16		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.00391		Yes	0.151		Yes	0.19		Yes	1.71		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.00328		Yes	0.0727		Yes	0.111		Yes	0.998		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.00254		Yes	0.0896		Yes	0.108		Yes	0.912		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	0.0184	J	Yes	0.513	J	Yes	0.826	J	Yes	8.19	J	Yes		C59
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	0.0281	J	Yes	0.241	J	Yes	0.412	J	Yes	7.53	J	Yes		C59
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.00107		Yes	0.033		Yes	0.0365		Yes	0.321		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.0175	J	Yes	0.0502	J	Yes	0.0755	J	Yes	0.62	J	Yes		C59
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.00356		Yes	0.0927		Yes	0.12		Yes	1.03		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.000956		Yes	0.0274		Yes	0.0367		Yes	0.304		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	0.0149	J	Yes	0.603	J	Yes	1.06	J	Yes	7.82	J	Yes		C59
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.00348		Yes	0.0907		Yes	0.132		Yes	1.18		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.000762	J	Yes	0.0237		Yes	0.0389		Yes	0.302		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.00319		Yes	0.101		Yes	0.13		Yes	1.13		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.00936		Yes	0.204		Yes	0.276		Yes	2.75		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.00179		Yes	0.0617		Yes	0.0729		Yes	0.68		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.000979	U	No	0.0679		Yes	0.184		Yes	3.84		Yes		C59
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.00133		Yes	0.0519		Yes	0.0698		Yes	0.651		Yes		C59

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background		PCB-63 µg/kg			PCB-64 µg/kg			PCB-65 µg/kg			PCB-66 µg/kg		
								Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes		0.997		Yes	7.39		Yes		C44		17.4		Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes		0.103		Yes	1.01		Yes		C44		2.33		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes		0.0815		Yes	1.02		Yes		C44		1.99		Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes		7.55	J	Yes	82.6	J	Yes		C44		193	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes		0.0749	J	Yes	1.24		Yes		C44		2.39		Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes		0.0839	J	Yes	1.15	J	Yes		C44		3.33	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes		0.642	J	Yes	7.7	J	Yes		C44		15.2	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes		0.102		Yes	1.28		Yes		C44		2.78		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes		0.173		Yes	2.07		Yes		C44		4.54	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes		0.982		Yes	10.4	J	Yes		C44		22.3	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes		0.146		Yes	1.41		Yes		C44		3.74		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes		0.0684		Yes	0.638		Yes		C44		1.72		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes		0.0575		Yes	0.604		Yes		C44		1.4		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes		0.0594		Yes	0.734		Yes		C44		1.45		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes		0.0876		Yes	1.12		Yes		C44		0.00156	U	No
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes		0.177		Yes	2.21	J	Yes		C44		4.69	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes		0.0863		Yes	0.663		Yes		C44		1.84		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes		0.234		Yes	0.861		Yes		C44		5.98	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes		0.0243		Yes	0.266		Yes		C44		0.602		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes		0.0673	J	Yes	0.959	J	Yes		C44		2.1	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes		0.0808		Yes	0.804		Yes		C44		1.96		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes		0.0458		Yes	0.678		Yes		C44		1.36		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes		0.08	J	Yes	0.831	J	Yes		C44		2.07	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes		0.111	J	Yes	1.28	J	Yes		C44		2.96	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes		0.0592		Yes	0.624		Yes		C44		1.47		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes		0.129		Yes	1.11		Yes		C44		2.94		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes		0.0123	UJ	No	0.134	J	Yes		C44		0.265	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes		0.0885	J	Yes	1.01	J	Yes		C44		2.4	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes		0.0294		Yes	0.393		Yes		C44		0.87		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes		0.0377		Yes	0.569		Yes		C44		1.11		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No		0.0245		Yes	0.303		Yes		C44		0.667		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No		0.0249		Yes	0.319		Yes		C44		0.627		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No		0.185	J	Yes	2.28	J	Yes		C44		4.95	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No		0.139	J	Yes	1.38	J	Yes		C44		3.79	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No		0.00742		Yes	0.116		Yes		C44		0.216		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No		0.0151	J	Yes	0.221	J	Yes		C44		0.407	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No		0.0287		Yes	0.374		Yes		C44		0.711		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No		0.00763		Yes	0.106		Yes		C44		0.231		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No		0.195	J	Yes	2.61	J	Yes		C44		4.87	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No		0.0239		Yes	0.381		Yes		C44		0.906		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No		0.00691		Yes	0.0974		Yes		C44		0.202		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No		0.000713	U	No	0.411		Yes		C44		0.795		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		0.0636		Yes	0.82		Yes		C44		1.89		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No		0.0158		Yes	0.274		Yes		C44		0.455		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No		0.0361		Yes	0.62		Yes		C44		1		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No		0.0128		Yes	0.216		Yes		C44		0.382		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-67 µg/kg			PCB-68 µg/kg			PCB-69 µg/kg			PCB-70 µg/kg		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	0.669		Yes	0.544		Yes		C49			C61	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	0.142		Yes	0.0584		Yes		C49			C61	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	0.105		Yes	0.0384	J	Yes		C49			C61	
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	8.39	J	Yes	0.762	J	Yes		C49			C61	
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	0.0751	J	Yes	0.0174	U	No		C49			C61	
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	0.0876	J	Yes	0.0508	J	Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	1.26		Yes	0.161		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.117		Yes	0.0522		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	0.215		Yes	0.0798		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	1.43		Yes	0.46		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	0.174		Yes	0.0676		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.0786		Yes	0.0401		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.0589		Yes	0.026		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.0717		Yes	0.0248		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.0996		Yes	0.046		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.202		Yes	0.0551		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.0821		Yes	0.0644		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.0834		Yes	0.242		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.0287		Yes	0.0144		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.0636	J	Yes	0.0237	J	Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.0829		Yes	0.0515		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.0537		Yes	0.0253		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.116	J	Yes	0.0553	J	Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	0.134	J	Yes	0.0233	J	Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.0673		Yes	0.0255		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.13		Yes	0.0707		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.0126	UJ	No	0.0122	UJ	No		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.00111	U	No	0.0356	J	Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.0323		Yes	0.017		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.0418		Yes	0.0135		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.0266		Yes	0.00923		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.0263		Yes	0.0135		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	0.2	J	Yes	0.0397	J	Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	0.487	J	Yes	0.0748	J	Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.00801		Yes	0.00237		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.0162	J	Yes	0.00387	UJ	No		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.0281		Yes	0.0126		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.00789		Yes	0.00268		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	0.193	J	Yes	0.0408	J	Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.0248		Yes	0.0097		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.00709		Yes	0.00167		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.000753	U	No	0.00762		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.0832		Yes	0.0325		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.0146		Yes	0.00342		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.0151		Yes	0.00246		Yes		C49			C61	
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.0125		Yes	0.00251		Yes		C49			C61	

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-71 µg/kg			PCB-72 µg/kg			PCB-73 µg/kg			PCB-74 µg/kg		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes		C40		0.471		Yes		C43			C61	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes		C40		0.0369	J	Yes		C43			C61	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes		C40		0.0261	J	Yes		C43			C61	
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes		C40		1.46	J	Yes		C43			C61	
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes		C40		0.0187	U	No		C43			C61	
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes		C40		0.0787	J	Yes		C43			C61	
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes		C40		0.226		Yes	0.108	J	Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes		C40		0.0395		Yes	0.0646		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes		C40		0.0692		Yes	0.0897		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes		C40		0.468		Yes	0.377		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes		C40		0.0636		Yes	0.0617		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes		C40		0.0283		Yes	0.0433		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes		C40		0.0208		Yes	0.0284		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes		C40		0.0209		Yes	0.017		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes		C40		0.036		Yes	0.0465		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes		C40		0.0557		Yes	0.0308	J	Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes		C40		0.0426		Yes	0.0397		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes		C40		0.178		Yes	0.119		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes		C40		0.0114		Yes	0.014		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes		C40		0.0434	J	Yes	0.00174	UJ	No		C61	
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes		C40		0.0319		Yes	0.0493		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes		C40		0.0188		Yes	0.0232		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes		C40		0.0444	J	Yes	0.0458	J	Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes		C40		0.0313	J	Yes	0.00371	UJ	No		C61	
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes		C40		0.0253		Yes	0.0212		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes		C40		0.0463		Yes	0.0457		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes		C40		0.0131	UJ	No	0.00746	UJ	No		C61	
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes		C40		0.0307	J	Yes	0.0368	J	Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes		C40		0.0126		Yes	0.0174		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes		C40		0.0126		Yes	0.0175		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No		C40		0.012		Yes	0.000151	U	No		C61	
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No		C40		0.00956		Yes	0.0157		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No		C40		0.0544	J	Yes	0.0241	J	Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No		C40		0.14	J	Yes	0.0163	J	Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No		C40		0.00277		Yes	0.00211		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No		C40		0.00406	UJ	No	0.00358	J	Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No		C40		0.0113		Yes	0.00885		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No		C40		0.00297		Yes	0.00182		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No		C40		0.0508	J	Yes	0.0254	J	Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No		C40		0.00938		Yes	0.0112		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No		C40		0.00203		Yes	0.00107		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No		C40		0.00996		Yes	0.00406		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		C40		0.0345		Yes	0.0442		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No		C40		0.00493		Yes	0.00249		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No		C40		0.00406		Yes	0.00579		Yes		C61	
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No		C40		0.00389		Yes	0.0021		Yes		C61	

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-75 µg/kg Value	PCB-75 µg/kg Qual	PCB-75 µg/kg Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes		C59	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes		C59	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes		C59	
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes		C59	
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes		C59	
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes		C59	
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No		C59	
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No		C59	
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No		C59	
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No		C59	
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No		C59	
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No		C59	
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No		C59	
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No		C59	
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No		C59	
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No		C59	
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No		C59	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No		C59	
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		C59	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No		C59	
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No		C59	
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No		C59	

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-76 µg/kg			PCB-77 µg/kg			PCB-78 µg/kg			PCB-79 µg/kg			PC µ
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes		C61		1.61		Yes	0.0316	U	No	0.132	J	Yes	0.027
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes		C61		0.392		Yes	0.00578	U	No	0.0234	J	Yes	0.00495
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes		C61		0.266		Yes	0.00995	U	No	0.0218	J	Yes	0.00852
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes		C61		17.4	J	Yes	0.267	UJ	No	0.922	J	Yes	0.229
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes		C61		0.308	J	Yes	0.0198	U	No	0.0174	U	No	0.017
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes		C61		1.29	J	Yes	0.0284	UJ	No	0.0577	J	Yes	0.0243
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes		C61		3.42	J	Yes	0.0118	U	No	0.165	J	Yes	0.00964
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes		C61		0.475	J	Yes	0.0023	U	No	0.0224		Yes	0.00188
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes		C61		0.776		Yes	0.00371	U	No	0.0354		Yes	0.00303
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes		C61		10.9	J	Yes	0.0137		Yes	0.18		Yes	0.0063
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes		C61		2.33		Yes	0.0064	U	No	0.0449		Yes	0.00518
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes		C61		0.528		Yes	0.0023	U	No	0.0146		Yes	0.00187
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes		C61		0.268		Yes	0.00199	U	No	0.0123		Yes	0.00161
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes		C61		0.305		Yes	0.000733	U	No	0.0131		Yes	0.000597
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes		C61		0.387		Yes	0.00155	U	No	0.0207		Yes	0.0013
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes		C61		0.885		Yes	0.00238	U	No	0.0294		Yes	0.00194
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes		C61		0.289		Yes	0.000927	U	No	0.0143		Yes	0.000752
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes		C61		0.313		Yes	0.00375	U	No	0.0324		Yes	0.00304
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes		C61		0.114		Yes	0.000908	U	No	0.00756		Yes	0.000774
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes		C61		1.93	J	Yes	0.015	UJ	No	0.0315	J	Yes	0.0121
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes		C61		0.72		Yes	0.00315	U	No	0.0249		Yes	0.00269
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes		C61		0.211		Yes	0.0014	U	No	0.0123		Yes	0.00119
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes		C61		0.355	J	Yes	0.00192	UJ	No	0.0194	J	Yes	0.00164
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes		C61		0.479	J	Yes	0.00914	UJ	No	0.00759	UJ	No	0.00737
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes		C61		0.243		Yes	0.00211	U	No	0.0238		Yes	0.00182
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes		C61		0.33		Yes	0.00354	U	No	0.0352		Yes	0.00306
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes		C61		0.067	J	Yes	0.0145	UJ	No	0.012	UJ	No	0.0119
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes		C61		0.397	J	Yes	0.00123	U	No	0.0162	J	Yes	0.00105
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes		C61		0.156		Yes	0.00053	U	No	0.00523		Yes	0.00043
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes		C61		0.166		Yes	0.000519	U	No	0.00776		Yes	0.000421
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No		C61		0.254		Yes	0.000831	U	No	0.00487		Yes	0.000674
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No		C61		0.147		Yes	0.000392	U	No	0.00615		Yes	0.000316
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No		C61		1.05	J	Yes	0.00636	UJ	No	0.0985	J	Yes	0.00498
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No		C61		7.55	J	Yes	0.0152	J	Yes	0.127	J	Yes	0.00679
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No		C61		0.0669		Yes	0.000331	U	No	0.00279		Yes	0.000267
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No		C61		0.0971	J	Yes	0.00483	UJ	No	0.00492	J	Yes	0.00379
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No		C61		0.127		Yes	0.000365	U	No	0.0079		Yes	0.000307
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No		C61		0.0416		Yes	0.000147	U	No	0.00251		Yes	0.000124
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No		C61		1.15	J	Yes	0.00609	UJ	No	0.0671	J	Yes	0.00477
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No		C61		0.142		Yes	0.000688	U	No	0.00543		Yes	0.00058
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No		C61		0.031		Yes	0.000205	U	No	0.00173		Yes	0.000173
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No		C61		0.119		Yes	0.000829	U	No	0.00862		Yes	0.000694
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		C61		0.87		Yes	0.000987	U	No	0.0295		Yes	0.000822
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No		C61		0.0619		Yes	0.000277	U	No	0.00471		Yes	0.000231
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No		C61		0.111		Yes	0.00105	U	No	0.0548		Yes	0.000872
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No		C61		0.059		Yes	0.00027	U	No	0.00454		Yes	0.000225

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	B-80 g/kg		PCB-81 µg/kg			PCB-82 µg/kg			PCB-83 µg/kg		
								Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	U	No	0.0302	U	No	1.84		Yes	11.8		Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	U	No	0.00531	U	No	0.338	J	Yes	1.94		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	U	No	0.00976	U	No	0.296		Yes	1.47		Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	UJ	No	0.24	UJ	No	11.9	J	Yes	55.2	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	U	No	0.019	U	No	0.335	J	Yes	2.03		Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	UJ	No	0.0281	UJ	No	1.09	J	Yes	8.86	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	U	No	0.0544	J	Yes	3.91	J	Yes	1.84	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	U	No	0.0114		Yes	0.462		Yes	0.203		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	U	No	0.0166		Yes	0.736		Yes	0.333		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	U	No	0.0758		Yes	2.64		Yes	1.24		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	U	No	0.0122	EMPC-J	Yes	0.747		Yes	0.367		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	U	No	0.00851		Yes	0.327		Yes	0.151		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	U	No	0.00557	EMPC-J	Yes	0.28		Yes	0.118		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	U	No	0.00531		Yes	0.23		Yes	0.107		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	U	No	0.00759		Yes	0.368		Yes	0.17		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	U	No	0.0191		Yes	0.728		Yes	0.269		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	U	No	0.00576		Yes	0.265		Yes	0.136		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	U	No	0.00722		Yes	0.387		Yes	0.473		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	U	No	0.00184	EMPC-J	Yes	0.132		Yes	0.0635		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	UJ	No	0.0156	UJ	No	0.674	J	Yes	0.236	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	U	No	0.00802		Yes	0.395		Yes	0.19		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	U	No	0.00471		Yes	0.181		Yes	0.0862		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	UJ	No	0.00851	J	Yes	0.351	J	Yes	0.172	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	UJ	No	0.0131	EMPC-J	Yes	0.418	J	Yes	0.141	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	U	No	0.00737		Yes	0.323		Yes	0.159		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	U	No	0.00703		Yes	0.495		Yes	0.279		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	UJ	No	0.0148	UJ	No	0.067	J	Yes	0.0254	EMPC-J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	U	No	0.00959	J	Yes	0.418		Yes	0.203		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	U	No	0.0032		Yes	0.15		Yes	0.0643		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	U	No	0.00407		Yes	0.184		Yes	0.0895		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	U	No	0.00284		Yes	0.141		Yes	0.0592		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	U	No	0.00335		Yes	0.151		Yes	0.0611		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	UJ	No	0.0276	J	Yes	1.48	J	Yes	0.568	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	UJ	No	0.0133	J	Yes	1.52	J	Yes	0.702	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	U	No	0.0013		Yes	0.0681		Yes	0.0326		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	UJ	No	0.00519	UJ	No	0.0923	J	Yes	0.0382	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	U	No	0.00296		Yes	0.174		Yes	0.0732		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	U	No	0.00112		Yes	0.0592		Yes	0.0265		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	UJ	No	0.0296	J	Yes	1.16	J	Yes	0.487	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	U	No	0.00356		Yes	0.146		Yes	0.0625		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	U	No	0.000969		Yes	0.0358		Yes	0.0159		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	U	No	0.00419		Yes	0.199		Yes	0.0955		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	U	No	0.00807		Yes	0.369		Yes	0.162		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	U	No	0.00197		Yes	0.085		Yes	0.0401		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	U	No	0.00499		Yes	1.04		Yes	0.456		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	U	No	0.00194		Yes	0.0912		Yes	0.0375		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-84 µg/kg			PCB-85 µg/kg			PCB-86 µg/kg			PCB-87 µg/kg			PCB-88 µg/kg	
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	4.91		Yes	3.19		Yes	10.6	J	Yes		C86		5.72	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	0.827		Yes	0.632		Yes	2.03		Yes		C86		0.936	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	0.621		Yes	0.429		Yes	1.64		Yes		C86		0.505	J
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	26.3	J	Yes	15.4	J	Yes	56.8	J	Yes		C86		13.4	J
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	0.844		Yes	0.56		Yes	2.13		Yes		C86		0.69	
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	2.52	J	Yes	1.95	J	Yes	7.15	J	Yes		C86		1.4	J
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	8.69	J	Yes	4.37	J	Yes	21.3	J	Yes		C86		0.00408	U
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	1.03		Yes	0.539		Yes	2.28		Yes		C86		0.00176	U
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	1.59		Yes	0.852		Yes	3.64		Yes		C86		0.00525	U
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	6.17	J	Yes	3.73		Yes	13.2		Yes		C86		0.0122	U
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	1.52		Yes	1.02		Yes	3.93		Yes		C86		0.00213	U
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.57		Yes	0.38		Yes	1.55		Yes		C86		0.00565	U
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.555		Yes	0.305		Yes	1.32		Yes		C86		0.00158	U
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.498		Yes	0.262		Yes	1.17		Yes		C86		0.000169	U
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.817		Yes	0.438		Yes	1.87		Yes		C86		0.000656	U
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	1.58		Yes	0.741		Yes	3.67		Yes		C86		0.000758	U
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.567		Yes	0.305		Yes	1.39		Yes		C86		0.000225	U
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	1.07		Yes	0.613		Yes	2.99		Yes		C86		0.00641	U
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.282		Yes	0.172		Yes	0.699		Yes		C86		0.00742	U
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	1.55	J	Yes	0.671	J	Yes	3.75	J	Yes		C86		0.00347	UJ
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.785		Yes	0.602		Yes	1.99		Yes		C86		0.0197	U
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.462		Yes	0.224		Yes	0.979		Yes		C86		0.00212	U
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.869	J	Yes	0.405	J	Yes	1.9	J	Yes		C86		0.00175	UJ
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	0.914	J	Yes	0.465	J	Yes	2.19	J	Yes		C86		0.00807	UJ
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.679		Yes	0.413		Yes	1.74		Yes		C86		0.00266	U
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.981		Yes	0.65		Yes	3.13		Yes		C86		0.00363	U
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.117	J	Yes	0.0093	UJ	No	0.276	J	Yes		C86		0.0128	UJ
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.906		Yes	0.506		Yes	2.17		Yes		C86		0.000787	U
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.343		Yes	0.165		Yes	0.727		Yes		C86		0.000179	U
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.417		Yes	0.202		Yes	0.882		Yes		C86		0.000176	U
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.306		Yes	0.0378		Yes	0.708		Yes		C86		0.0003	U
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.291		Yes	0.193		Yes	0.718		Yes		C86		0.00086	U
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	2.24	J	Yes	2.13	J	Yes	8.27	J	Yes		C86		0.00331	UJ
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	3.25	J	Yes	1.84	J	Yes	8.77	J	Yes		C86		0.00275	UJ
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.143		Yes	0.0844		Yes	0.311		Yes		C86		0.000243	U
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.171	J	Yes	0.12	J	Yes	0.485	J	Yes		C86		0.00443	UJ
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.379		Yes	0.2		Yes	0.891		Yes		C86		0.000168	U
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.132		Yes	0.0672		Yes	0.279		Yes		C86		0.000131	U
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	2.01	J	Yes	1.45	J	Yes	5.82	J	Yes		C86		0.0052	UJ
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.291		Yes	0.16		Yes	0.672		Yes		C86		0.000274	U
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.0779		Yes	0.0433		Yes	0.172		Yes		C86		0.000139	U
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.463		Yes	0.245		Yes	1.06		Yes		C86		0.000763	U
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.759		Yes	0.457		Yes	2.02		Yes		C86		0.000803	U
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.197		Yes	0.091		Yes	0.4		Yes		C86		0.000171	U
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	2.47		Yes	1.05		Yes	5.88		Yes		C86		0.00045	U
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.213		Yes	0.0983		Yes	0.447		Yes		C86		0.000251	U

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background		PCB-89			PCB-90			PCB-91		
									µg/kg			µg/kg			µg/kg		
								Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	Yes	0.0474	U	No	18.5		Yes		C88	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	Yes	0.0302	J	Yes	3.47		Yes		C88	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	Yes	0.0196	U	No	2.58		Yes		C88	
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	Yes	1.54	J	Yes	90	J	Yes		C88	
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	Yes	0.0391	U	No	3.17		Yes		C88	
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	Yes	0.0601	UJ	No	12.2	J	Yes		C88	
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	No	0.333	J	Yes	30.5	J	Yes	3.98	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	No	0.0464		Yes	3.49		Yes	0.639		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	No	0.0778		Yes	5.61		Yes	0.978		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	No	0.344		Yes	19.9	J	Yes	4.49	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	No	0.00193	U	No	5.94		Yes	0.883		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	No	0.00512	U	No	2.3		Yes	0.423		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	No	0.0289		Yes	1.99		Yes	0.352		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	No	0.0246		Yes	1.78		Yes	0.319		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	No	0.000604	U	No	2.99		Yes	0.551		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	No	0.0749		Yes	5.44		Yes	0.835		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	No	0.0255		Yes	2.27		Yes	0.508		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	No	0.00581	U	No	4.21		Yes	2.34		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	No	0.0123		Yes	1.11		Yes	0.217		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	No	0.0479	J	Yes	6.54	J	Yes	0.734	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	No	0.0391		Yes	3.05		Yes	0.624		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	No	0.0212		Yes	1.5		Yes	0.31		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	No	0.0356	J	Yes	2.96	J	Yes	0.645	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	No	0.047	J	Yes	3.39	J	Yes	0.451	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	No	0.0312		Yes	2.67		Yes	0.391		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	No	0.0515		Yes	5.16		Yes	0.888		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	No	0.0128	UJ	No	0.395	J	Yes	0.0596	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	No	0.0505		Yes	3.22		Yes	0.544		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	No	0.0173		Yes	1.16		Yes	0.213		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	No	0.0196		Yes	1.33		Yes	0.22		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	No	0.0129		Yes	1.11		Yes	0.161		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	No	0.0115		Yes	1.09		Yes	0.187		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	No	0.1	J	Yes	11.8	J	Yes	1.17	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	No	0.103	J	Yes	12.8	J	Yes	1.41	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	No	0.00605		Yes	0.477		Yes	0.0692		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	No	0.00733	J	Yes	0.667	J	Yes	0.0855	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	No	0.0161		Yes	1.3		Yes	0.206		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	No	0.00622		Yes	0.424		Yes	0.0663		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	No	0.096	J	Yes	8.18	J	Yes	0.971	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	No	0.0143		Yes	1.01		Yes	0.15		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	No	0.00371		Yes	0.26		Yes	0.0357		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	No	0.0245		Yes	1.58		Yes	0.21		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	No	0.0314		Yes	3.01		Yes	0.496		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	No	0.00914		Yes	0.606		Yes	0.101		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	No	0.061		Yes	7.93		Yes	0.914		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	No	0.00799		Yes	0.637		Yes	0.0928		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-92 µg/kg			PCB-93 µg/kg			PCB-94 µg/kg			PCB-95 µg/kg			PCB-96 µg/kg	
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	4.03		Yes	3.04		Yes	1.13		Yes	14.9		Yes	0.741	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	0.61		Yes	0.603		Yes	0.113		Yes	2.42		Yes	0.0619	J
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	0.385	J	Yes	0.253	J	Yes	0.053	J	Yes	1.96		Yes	0.0448	J
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	15.7	J	Yes	0.824	J	Yes	0.411	UJ	No	73.6	J	Yes	0.881	J
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	0.619		Yes	0.22	J	Yes	0.0391	U	No	2.6		Yes	0.0292	U
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	2.33	J	Yes	0.144	J	Yes	0.0601	UJ	No	7.85	J	Yes	0.0449	UJ
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	5.99	J	Yes	0.784		Yes	0.271	J	Yes	23.6	J	Yes	0.481	J
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.696		Yes	0.37		Yes	0.102		Yes	2.87		Yes	0.0937	
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	1.15		Yes	0.493		Yes	0.155		Yes	4.52	J	Yes	0.14	
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	4.13	J	Yes	2.05		Yes	0.634		Yes	15.6	J	Yes	0.682	
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	1.13		Yes	0.495		Yes	0.103		Yes	4.12	J	Yes	0.105	
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.445		Yes	0.289		Yes	0.0727		Yes	1.5		Yes	0.0992	
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.395		Yes	0.165		Yes	0.0511		Yes	1.54		Yes	0.0485	
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.353		Yes	0.163		Yes	0.0459		Yes	1.44		Yes	0.0331	
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.593		Yes	0.285		Yes	0.0848		Yes	2.32		Yes	0.0662	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	1.04		Yes	0.303		Yes	0.0876		Yes	4.08	J	Yes	0.0786	
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.462		Yes	0.374		Yes	0.101		Yes	1.62		Yes	0.0656	
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	1.68		Yes	0.574		Yes	0.371		Yes	2.43		Yes	0.26	
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.217		Yes	0.12		Yes	0.032		Yes	0.842		Yes	0.0239	
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	1.14	J	Yes	0.00302	UJ	No	0.037	J	Yes	4.67	J	Yes	0.0412	J
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.633		Yes	0.304		Yes	0.107		Yes	2.25		Yes	0.065	
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.274		Yes	0.131		Yes	0.0474		Yes	1.34		Yes	0.0382	
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.598	J	Yes	0.327	J	Yes	0.0984	J	Yes	2.54	J	Yes	0.0765	J
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	0.664	J	Yes	0.0882	J	Yes	0.0378	J	Yes	2.58	J	Yes	0.0417	J
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.533		Yes	0.159		Yes	0.0468		Yes	1.96		Yes	0.0396	
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	1.16		Yes	0.535		Yes	0.168		Yes	2.76		Yes	0.0857	
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.0773	EMPC-J	Yes	0.0162	J	Yes	0.0125	UJ	No	0.322	J	Yes	0.00966	UJ
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.617		Yes	0.392		Yes	0.0735		Yes	2.56		Yes	0.0641	
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.229		Yes	0.154		Yes	0.0378		Yes	1.01		Yes	0.0293	
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.268		Yes	0.0728		Yes	0.0291		Yes	1.21		Yes	0.0258	
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.224		Yes	0.0365		Yes	0.0152		Yes	0.901		Yes	0.0142	
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.209		Yes	0.0925		Yes	0.0256		Yes	0.885		Yes	0.0238	
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	2.07	J	Yes	0.183	J	Yes	0.0662	J	Yes	6.45	J	Yes	0.0799	J
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	2.43	J	Yes	0.0878	J	Yes	0.0433	J	Yes	9.1	J	Yes	0.0717	J
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.0902		Yes	0.0107		Yes	0.00501		Yes	0.429		Yes	0.00736	
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.128	J	Yes	0.0173	J	Yes	0.00485	EMPC-J	Yes	0.525	J	Yes	0.00737	J
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.256		Yes	0.0583		Yes	0.0223		Yes	1.13		Yes	0.0202	
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.0844		Yes	0.0114		Yes	0.00529		Yes	0.392		Yes	0.00607	
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	1.51	J	Yes	0.176	J	Yes	0.0679	J	Yes	5.88	J	Yes	0.102	J
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.192		Yes	0.032		Yes	0.0174		Yes	0.885		Yes	0.0268	
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.0494		Yes	0.00498		Yes	0.00225		Yes	0.234		Yes	0.00314	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.312		Yes	0.0252		Yes	0.0139		Yes	1.45		Yes	0.0136	
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.586		Yes	0.253		Yes	0.0449		Yes	2.32		Yes	0.0798	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.12		Yes	0.0106		Yes	0.00605		Yes	0.572		Yes	0.00925	
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	1.42		Yes	0.0335		Yes	0.0258		Yes	6.78	J	Yes	0.0516	
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.12		Yes	0.00684		Yes	0.00417		Yes	0.612		Yes	0.0064	

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background		PCB-97			PCB-98			PCB-99		
									µg/kg			µg/kg			µg/kg		
								Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	Yes		C86		1.93		Yes		C83	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	Yes		C86		0.19		Yes		C83	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	Yes		C86		0.142		Yes		C83	
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	Yes		C86		2.88	J	Yes		C83	
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	No		C86		0.0336	U	No		C83	
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	No		C86		0.27	J	Yes		C83	
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	Yes		C86		0.0892	J	Yes	15.6	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	Yes		C86		0.0151		Yes	1.83		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	Yes		C86		0.0416		Yes	2.82		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	Yes		C86		0.186		Yes	10.4	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	Yes		C86		0.02		Yes	3.08		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	Yes		C86		0.0126		Yes	1.11		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	Yes		C86		0.0104		Yes	0.983		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes		C86		0.000141	U	No	0.856		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes		C86		0.0242		Yes	1.42		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes		C86		0.0212	J	Yes	2.7		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes		C86		0.0241		Yes	1.05		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	Yes		C86		0.0854		Yes	3.44		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	Yes		C86		0.00863		Yes	0.512		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	Yes		C86		0.00312	UJ	No	2.95	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	Yes		C86		0.0181	U	No	1.46		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	Yes		C86		0.00646		Yes	0.689		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	Yes		C86		0.0167	J	Yes	1.4	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	Yes		C86		0.00727	UJ	No	1.53	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	Yes		C86		0.00271	U	No	1.35		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	Yes		C86		0.0451		Yes	2.94		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	No		C86		0.0119	UJ	No	0.213	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes		C86		0.0147	EMPC-J	Yes	1.52		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes		C86		0.000177	U	No	0.552		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes		C86		0.000174	U	No	0.627		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes		C86		0.0051		Yes	0.597		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes		C86		0.0075		Yes	0.495		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes		C86		0.0141	EMPC-J	Yes	6.22	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes		C86		0.0325	J	Yes	6.22	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes		C86		0.00148		Yes	0.206		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes		C86		0.00436	UJ	No	0.325	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes		C86		0.00464		Yes	0.613		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes		C86		0.00106		Yes	0.196		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes		C86		0.0201	J	Yes	3.79	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes		C86		0.00462		Yes	0.444		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes		C86		0.00107		Yes	0.117		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes		C86		0.0046		Yes	0.728		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes		C86		0.0179		Yes	1.85		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes		C86		0.00138		Yes	0.306		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes		C86		0.0122		Yes	3.24		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes		C86		0.000982		Yes	0.299		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-100 µg/kg			PCB-101 µg/kg			PCB-102 µg/kg			PCB-103 µg/kg		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes		C93			C90			C98		1.3		Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes		C93			C90			C98		0.139		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes		C93			C90			C98		0.0592	J	Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes		C93			C90			C98		0.802	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes		C93			C90			C98		0.0342	U	No
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes		C93			C90			C98		0.134	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes		C93			C90		1.49		Yes	0.372		Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes		C93			C90		0.172		Yes	0.121		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes		C93			C90		0.233		Yes	0.176		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes		C93			C90		1.08		Yes	0.696		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes		C93			C90		0.19		Yes	0.156		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes		C93			C90		0.0951		Yes	0.086		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes		C93			C90		0.0812		Yes	0.0617		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes		C93			C90		0.111		Yes	0.0566		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes		C93			C90		0.119		Yes	0.101		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes		C93			C90		0.266	J	Yes	0.0922		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes		C93			C90		0.0838		Yes	0.103		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes		C93			C90		0.304		Yes	0.327		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes		C93			C90		0.0583		Yes	0.0406		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes		C93			C90		0.189	J	Yes	0.0758	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes		C93			C90		0.174		Yes	0.114		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes		C93			C90		0.0915		Yes	0.0521		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes		C93			C90		0.195	J	Yes	0.118	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes		C93			C90		0.12	J	Yes	0.0402	EMPC-J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes		C93			C90		0.0967		Yes	0.0619		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes		C93			C90		0.2		Yes	0.193		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes		C93			C90		0.0192	EMPC-J	Yes	0.0107	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes		C93			C90		0.144		Yes	0.0898		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes		C93			C90		0.0623		Yes	0.0475		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes		C93			C90		0.0624		Yes	0.0337		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No		C93			C90		0.0421		Yes	0.0221		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No		C93			C90		0.0416		Yes	0.0318		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No		C93			C90		0.259	J	Yes	0.0865	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No		C93			C90		0.233	J	Yes	0.1	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No		C93			C90		0.0174		Yes	0.00587		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No		C93			C90		0.0248	J	Yes	0.00727	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No		C93			C90		0.0584		Yes	0.0255		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No		C93			C90		0.0161		Yes	0.006		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No		C93			C90		0.267	J	Yes	0.0822	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No		C93			C90		0.0439		Yes	0.0181		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No		C93			C90		0.00847		Yes	0.00272		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No		C93			C90		0.0458		Yes	0.0151		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		C93			C90		0.506		Yes	0.124		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No		C93			C90		0.0241		Yes	0.00697		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No		C93			C90		0.16		Yes	0.031		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No		C93			C90		0.0208		Yes	0.00482		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-104 µg/kg			PCB-105 µg/kg			PCB-106 µg/kg		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	0.335	J	Yes	4.2		Yes	0.031	U	No
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	0.0487	J	Yes	0.974		Yes	0.00582	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	0.0131	U	No	0.758		Yes	0.00907	U	No
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	0.274	UJ	No	23.1	J	Yes	0.246	UJ	No
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	0.026	U	No	0.974		Yes	0.0206	U	No
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	0.0401	UJ	No	3.67	J	Yes	0.0309	UJ	No
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	0.0819		Yes	11.7	J	Yes	0.00245	U	No
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.0469		Yes	1.18		Yes	0.00309		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	0.0612		Yes	1.85		Yes	0.00314	U	No
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	0.224		Yes	5.59	J	Yes	0.00742	U	No
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	0.0616		Yes	2.42		Yes	0.0013	U	No
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.063		Yes	0.978		Yes	0.00345	U	No
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.0222		Yes	0.854		Yes	0.000965	U	No
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.0189		Yes	0.675		Yes	0.00012	U	No
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.0341		Yes	1.01		Yes	0.000441	U	No
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.0238		Yes	2.07		Yes	0.00443	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.0433		Yes	0.753		Yes	0.000646	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.0632		Yes	2.29		Yes	0.00391	U	No
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.0157		Yes	0.422		Yes	0.00501	U	No
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.00525	J	Yes	2.38	J	Yes	0.00249	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.0357		Yes	1.08		Yes	0.0133	U	No
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.0159		Yes	0.475		Yes	0.00143	U	No
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.0371	J	Yes	0.9	J	Yes	0.00118	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	0.00833	J	Yes	1.54	J	Yes	0.00579	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.018		Yes	1.1		Yes	0.00178	U	No
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.0577		Yes	1.76		Yes	0.00243	U	No
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.00905	UJ	No	0.178	J	Yes	0.00905	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.0496		Yes	1.2		Yes	0.000517	U	No
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.0182		Yes	0.373		Yes	0.000119	U	No
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.00966		Yes	0.452		Yes	0.000117	U	No
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.00393		Yes	0.443		Yes	0.000199	U	No
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.0136		Yes	0.473		Yes	0.000605	U	No
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	0.0172	J	Yes	6.49	J	Yes	0.00221	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	0.00161	UJ	No	5.14	J	Yes	0.00758	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.00112		Yes	0.167		Yes	0.00017	U	No
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.00232	UJ	No	0.303	J	Yes	0.00295	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.00637		Yes	0.493		Yes	0.0001	U	No
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.00086		Yes	0.158		Yes	0.0000777	U	No
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	0.0235	J	Yes	4.09	J	Yes	0.00347	UJ	No
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.00659		Yes	0.376		Yes	0.000163	U	No
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.000396	EMPC-J	Yes	0.107		Yes	0.0000829	U	No
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.00107	EMPC-J	Yes	0.516		Yes	0.000513	U	No
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.0668		Yes	1.31		Yes	0.000592	U	No
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.000723	J	Yes	0.216		Yes	0.000126	U	No
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.000693	J	Yes	3.55	J	Yes	0.000331	U	No
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.00033	J	Yes	0.269		Yes	0.000185	U	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-107 µg/kg			PCB-108 µg/kg			PCB-109 µg/kg			PCB-110 µg/kg			PC µ
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	0.996		Yes	0.479		Yes		C86		18.4		Yes	0.0297
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	0.213		Yes	0.103		Yes		C86		3.8		Yes	0.00621
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	0.119		Yes	0.074		Yes		C86		3.09		Yes	0.0123
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	5.77	J	Yes	2.33	J	Yes		C86		101	J	Yes	0.258
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	0.169	J	Yes	0.0722	J	Yes		C86		4.15		Yes	0.0245
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	1.2	J	Yes	0.393	J	Yes		C86		14.9	J	Yes	0.0376
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	2.14	J	Yes	1.2	J	Yes		C86		37.9	J	Yes	0.00222
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.222		Yes	0.114		Yes		C86		4.62	J	Yes	0.000953
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	0.37		Yes	0.185		Yes		C86		7.41	J	Yes	0.00285
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	1.26		Yes	0.602		Yes		C86		24.3	J	Yes	0.00714
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	0.409		Yes	0.218		Yes		C86		7.57	J	Yes	0.00125
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.184		Yes	0.0907		Yes		C86		3.23		Yes	0.00332
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.131		Yes	0.0704		Yes		C86		2.7		Yes	0.000929
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.112		Yes	0.0621		Yes		C86		2.2		Yes	0.00261
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.164		Yes	0.0915		Yes		C86		3.59	J	Yes	0.00341
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.364		Yes	0.199		Yes		C86		6.68	J	Yes	0.00568
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.145		Yes	0.07		Yes		C86		2.7		Yes	0.00014
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.853		Yes	0.222		Yes		C86		7.01	J	Yes	0.0169
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.0666		Yes	0.0357		Yes		C86		1.39		Yes	0.00483
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.448	J	Yes	0.205	J	Yes		C86		7.13	J	Yes	0.00227
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.194		Yes	0.1		Yes		C86		3.96		Yes	0.0128
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.0744		Yes	0.0425		Yes		C86		1.94		Yes	0.00138
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.153	J	Yes	0.0918	J	Yes		C86		3.75	J	Yes	0.00114
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	0.222	J	Yes	0.108	J	Yes		C86		3.68	J	Yes	0.00529
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.194		Yes	0.107		Yes		C86		3.03		Yes	0.00163
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.419		Yes	0.189		Yes		C86		4.79	J	Yes	0.00222
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.0396	J	Yes	0.0191	EMPC-J	Yes		C86		0.541	J	Yes	0.00811
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.201		Yes	0.105		Yes		C86		4.12	J	Yes	0.00315
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.0646		Yes	0.0363		Yes		C86		1.46		Yes	0.0017
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.0743		Yes	0.0434		Yes		C86		1.78		Yes	0.00011
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.0766		Yes	0.0401		Yes		C86		1.44		Yes	0.00127
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.0766		Yes	0.0422		Yes		C86		1.37		Yes	0.000556
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	0.974	J	Yes	0.611	J	Yes		C86		14.8	J	Yes	0.00209
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	0.959	J	Yes	0.475	J	Yes		C86		17.3	J	Yes	0.0122
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.026		Yes	0.015		Yes		C86		0.62		Yes	0.000157
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.0493	J	Yes	0.0292	J	Yes		C86		0.931	J	Yes	0.0028
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.0782		Yes	0.047		Yes		C86		1.73		Yes	0.00112
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.0236		Yes	0.0143		Yes		C86		0.599		Yes	0.000328
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	0.596	J	Yes	0.355	J	Yes		C86		11.4	J	Yes	0.00328
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.0533		Yes	0.0358		Yes		C86		1.38		Yes	0.000149
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.0153		Yes	0.00987		Yes		C86		0.358		Yes	0.0000755
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.0822		Yes	0.0541		Yes		C86		2.21		Yes	0.000441
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.21		Yes	0.115		Yes		C86		3.48	J	Yes	0.0038
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.0363		Yes	0.0209		Yes		C86		0.812		Yes	0.000116
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.473		Yes	0.331		Yes		C86		9.25	J	Yes	0.000305
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.0381		Yes	0.024		Yes		C86		0.83		Yes	0.000171

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	B-111 g/kg		PCB-112 µg/kg			PCB-113 µg/kg			PCB-114 µg/kg		
								Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	U	No	0.0322	U	No		C90		0.273	J	Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	U	No	0.00674	U	No		C90		0.0542		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	U	No	0.0133	U	No		C90		0.0313	J	Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	UJ	No	0.28	UJ	No		C90		1.35	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	U	No	0.0266	U	No		C90		0.0467	J	Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	UJ	No	0.0409	UJ	No		C90		0.185	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	U	No	0.00226	U	No		C90		0.699	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	U	No	0.000973	U	No		C90		0.0695		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	U	No	0.00291	U	No		C90		0.104		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	U	No	0.00715	U	No		C90		0.392		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	U	No	0.00125	U	No		C90		0.129		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	U	No	0.00332	U	No		C90		0.0535		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	U	No	0.000931	U	No		C90		0.0428		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes		Yes	0.000108	U	No		C90		0.0385		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes		Yes	0.000405	U	No		C90		0.0516		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes		Yes	0.000482	U	No		C90		0.129		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	U	No	0.000142	U	No		C90		0.0422		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes		Yes	0.00377	U	No		C90		0.131		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	U	No	0.00514	U	No		C90		0.0208		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	UJ	No	0.00241	UJ	No		C90		0.107	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	U	No	0.0137	U	No		C90		0.0557		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	U	No	0.00146	U	No		C90		0.024		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	UJ	No	0.00121	UJ	No		C90		0.0462	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	UJ	No	0.0056	UJ	No		C90		0.0696	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	U	No	0.00172	U	No		C90		0.0612		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	U	No	0.00235	U	No		C90		0.104		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	UJ	No	0.00806	UJ	No		C90		0.0134	EMPC-J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	EMPC-J	Yes	0.000506	U	No		C90		0.0621		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes		Yes	0.000113	U	No		C90		0.0198		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	U	No	0.000111	U	No		C90		0.0244		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	EMPC-J	Yes	0.000189	U	No		C90		0.0227		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	U	No	0.000565	U	No		C90		0.0248		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	UJ	No	0.0021	UJ	No		C90		0.412	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	J	Yes	0.00174	UJ	No		C90		0.256	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	U	No	0.000159	U	No		C90		0.00834		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	UJ	No	0.00281	UJ	No		C90		0.017	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No		Yes	0.000102	U	No		C90		0.0262		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	J	Yes	0.000523	J	Yes		C90		0.00809		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	UJ	No	0.0033	UJ	No		C90		0.226	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	U	No	0.000166	U	No		C90		0.0202		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	U	No	0.000084	U	No		C90		0.00555		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	U	No	0.000471	U	No		C90		0.0265		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		Yes	0.000532	U	No		C90		0.0745		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	U	No	0.000113	U	No		C90		0.0106		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	U	No	0.000298	U	No		C90		0.2		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	U	No	0.000166	U	No		C90		0.0137		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-115 µg/kg			PCB-116 µg/kg			PCB-117 µg/kg			PCB-118 µg/kg			
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes		C110			C85			C85		12.2		Yes	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes		C110			C85			C85		2.54		Yes	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes		C110			C85			C85		1.93		Yes	
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes		C110			C85			C85		73	J	Yes	
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes		C110			C85			C85		2.52		Yes	
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes		C110			C85			C85		12.7	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	0.603	J	Yes		C85		0.853	J	Yes	27.5	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.0855		Yes		C85		0.116		Yes	2.89		Yes	
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	0.0733		Yes		C85		0.183		Yes	4.7	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	0.00731	U	No		C85		0.00828	U	No	15.4	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	0.13		Yes		C85		0.202		Yes	5.75	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.0512		Yes		C85		0.102		Yes	2.34		Yes	
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.0417		Yes		C85		0.0819		Yes	1.81		Yes	
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.037		Yes		C85		0.0692		Yes	1.61		Yes	
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.0548		Yes		C85		0.0911		Yes	2.49		Yes	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.0802	J	Yes		C85		0.153		Yes	5.17	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.0312		Yes		C85		0.124		Yes	1.94		Yes	
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.0687		Yes		C85		0.43		Yes	6.35	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.0181		Yes		C85		0.0345		Yes	0.97		Yes	
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.00247	UJ	No		C85		0.0449	J	Yes	6.03	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.0131	U	No		C85		0.0143	U	No	2.75		Yes	
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.024		Yes		C85		0.0454		Yes	1.2		Yes	
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.0527	J	Yes		C85		0.117	J	Yes	2.21	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	0.136	J	Yes		C85		0.0723	J	Yes	3.05	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.0451		Yes		C85		0.0849		Yes	2.55		Yes	
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.0835		Yes		C85		0.275		Yes	4.98	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.00797	UJ	No		C85		0.0876	J	Yes	0.363	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.0688		Yes		C85		0.091		Yes	2.79		Yes	
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.0153		Yes		C85		0.0482		Yes	0.902		Yes	
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.0176		Yes		C85		0.0532		Yes	1.08		Yes	
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.0475		Yes		C85		0.162		Yes	1.12		Yes	
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.0203		Yes		C85		0.0276		Yes	1.08		Yes	
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	0.309	J	Yes		C85		0.328	J	Yes	15.6	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	0.183	J	Yes		C85		0.393	J	Yes	12.3	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.0148		Yes		C85		0.0133		Yes	0.396		Yes	
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.0212	J	Yes		C85		0.0165	J	Yes	0.663	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.0341		Yes		C85		0.0478		Yes	1.11		Yes	
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.0073		Yes		C85		0.014		Yes	0.352		Yes	
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	0.155	J	Yes		C85		0.194	J	Yes	8.87	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.0334		Yes		C85		0.0216		Yes	0.891		Yes	
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.00448		Yes		C85		0.00522		Yes	0.24		Yes	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.0313		Yes		C85		0.0383		Yes	1.28		Yes	
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.0588		Yes		C85		0.0899		Yes	3.04		Yes	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.0112		Yes		C85		0.0219		Yes	0.507		Yes	
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.152		Yes		C85		0.227		Yes	7.94	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.0174		Yes		C85		0.017		Yes	0.592		Yes	

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-119 µg/kg		PCB-120 µg/kg			PCB-121 µg/kg			PCB-122 µg/kg			PC µ
								Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	C86		0.0305	U	No	0.0308	U	No	0.111	J	Yes	0.163
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	C86		0.0129	J	Yes	0.00644	U	No	0.0336	J	Yes	0.0413
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	C86		0.0126	U	No	0.0127	U	No	0.0182	J	Yes	0.0569
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	C86		0.265	UJ	No	0.267	UJ	No	0.942	J	Yes	0.789
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	C86		0.0252	U	No	0.0254	U	No	0.0224	U	No	0.0411
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	C86		0.101	J	Yes	0.039	UJ	No	0.0906	J	Yes	0.133
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	C86		0.0813	J	Yes	0.00227	U	No	0.414	J	Yes	0.507
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	C86		0.000948	U	No	0.000975	U	No	0.0481		Yes	0.0494
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	C86		0.00283	U	No	0.00291	U	No	0.0689		Yes	0.0819
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	C86		0.093		Yes	0.00718	U	No	0.238		Yes	0.301
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	C86		0.00124	U	No	0.00126	U	No	0.08		Yes	0.108
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	C86		0.0033	U	No	0.00334	U	No	0.0361		Yes	0.0397
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	C86		0.000923	U	No	0.000934	U	No	0.0315		Yes	0.0355
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	C86		0.000105	U	No	0.00324		Yes	0.0236		Yes	0.0381
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	C86		0.00863		Yes	0.00517		Yes	0.032		Yes	0.0486
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	C86		0.0191		Yes	0.00562		Yes	0.071		Yes	0.0921
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	C86		0.000142	U	No	0.00783		Yes	0.0253		Yes	0.0355
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	C86		0.00374	U	No	0.00378	U	No	0.0748		Yes	0.11
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	C86		0.00474	U	No	0.00495	U	No	0.0128		Yes	0.0183
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	C86		0.00226	UJ	No	0.00225	UJ	No	0.065	J	Yes	0.0765
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	C86		0.0126	U	No	0.0131	U	No	0.0404		Yes	0.0585
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	C86		0.00135	U	No	0.00141	U	No	0.015		Yes	0.0213
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	C86		0.00112	UJ	No	0.00117	UJ	No	0.0288	J	Yes	0.0491
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	C86		0.00526	UJ	No	0.00524	UJ	No	0.0456	J	Yes	0.0579
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	C86		0.0269		Yes	0.00167	U	No	0.0335		Yes	0.0526
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	C86		0.0232		Yes	0.00228	U	No	0.0544		Yes	0.0936
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	C86		0.00817	UJ	No	0.00842	UJ	No	0.00971	UJ	No	0.00914
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	C86		0.00937		Yes	0.00635		Yes	0.0378		Yes	0.0559
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	C86		0.00357		Yes	0.00305		Yes	0.0142		Yes	0.0195
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	C86		0.00314		Yes	0.00123		Yes	0.0165		Yes	0.0212
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	C86		0.00567		Yes	0.000583	J	Yes	0.0152		Yes	0.0255
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	C86		0.000553	U	No	0.000524	U	No	0.0151		Yes	0.0203
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	C86		0.0234	J	Yes	0.00257	EMPC-J	Yes	0.2	J	Yes	0.304
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	C86		0.00173	UJ	No	0.00167	UJ	No	0.145	J	Yes	0.209
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	C86		0.000156	U	No	0.000148	U	No	0.00624		Yes	0.0082
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	C86		0.0028	UJ	No	0.00269	UJ	No	0.0117	J	Yes	0.0158
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	C86		0.0000955	U	No	0.00093		Yes	0.0173		Yes	0.0203
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	C86		0.00103		Yes	0.000167	EMPC-J	Yes	0.00555		Yes	0.00752
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	C86		0.00328	UJ	No	0.00315	UJ	No	0.147	J	Yes	0.191
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	C86		0.000156	U	No	0.000559	EMPC-J	Yes	0.014		Yes	0.0244
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	C86		0.0000789	U	No	0.0000825	U	No	0.00373		Yes	0.00493
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	C86		0.00254	EMPC-J	Yes	0.000463	U	No	0.0177		Yes	0.0296
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	C86		0.0126		Yes	0.00535		Yes	0.0447		Yes	0.062
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	C86		0.000116	U	No	0.000116	U	No	0.00763		Yes	0.0105
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	C86		0.000304	U	No	0.000304	U	No	0.101		Yes	0.125
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	C86		0.00017	U	No	0.00017	U	No	0.00902		Yes	0.0124

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	B-123 µg/kg		PCB-124 µg/kg			PCB-125 µg/kg			PCB-126 µg/kg			PC µ
								Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	J	Yes		C108			C86		0.0484	J	Yes	0.0307
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	J	Yes		C108			C86		0.0122	J	Yes	0.00575
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes		Yes		C108			C86		0.0136	J	Yes	0.00897
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	J	Yes		C108			C86		0.283	UJ	No	0.244
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	J	Yes		C108			C86		0.0205	U	No	0.0204
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	J	Yes		C108			C86		0.0715	J	Yes	0.0305
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	J	Yes		C108			C86		0.167	J	Yes	0.00243
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes		Yes		C108			C86		0.0101		Yes	0.000983
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes		Yes		C108			C86		0.0122		Yes	0.00338
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes		Yes		C108			C86		0.102		Yes	0.00804
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes		Yes		C108			C86		0.0211		Yes	0.00133
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes		Yes		C108			C86		0.0128		Yes	0.0034
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes		Yes		C108			C86		0.00768		Yes	0.00102
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes		Yes		C108			C86		0.00709		Yes	0.00273
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes		Yes		C108			C86		0.0106		Yes	0.000457
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes		Yes		C108			C86		0.0166		Yes	0.000521
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes		Yes		C108			C86		0.00733		Yes	0.000157
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes		Yes		C108			C86		0.00962		Yes	0.00429
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes		Yes		C108			C86		0.00508		Yes	0.00526
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	J	Yes		C108			C86		0.0773	J	Yes	0.00264
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes		Yes		C108			C86		0.0378		Yes	0.0123
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes		Yes		C108			C86		0.0056		Yes	0.00141
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	J	Yes		C108			C86		0.00987	J	Yes	0.00112
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	J	Yes		C108			C86		0.0143	J	Yes	0.00771
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes		Yes		C108			C86		0.018		Yes	0.00164
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes		Yes		C108			C86		0.0138		Yes	0.00244
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	UJ	No		C108			C86		0.0215	UJ	No	0.00861
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes		Yes		C108			C86		0.00985		Yes	0.000548
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes		Yes		C108			C86		0.0038		Yes	0.00013
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes		Yes		C108			C86		0.00365		Yes	0.000122
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No		Yes		C108			C86		0.00583		Yes	0.000233
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No		Yes		C108			C86		0.00443		Yes	0.00225
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	J	Yes		C108			C86		0.0327	J	Yes	0.00241
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	J	Yes		C108			C86		0.106	J	Yes	0.00203
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No		Yes		C108			C86		0.00192		Yes	0.000229
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	J	Yes		C108			C86		0.00727	UJ	No	0.00304
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No		Yes		C108			C86		0.00427		Yes	0.000104
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No		Yes		C108			C86		0.00124		Yes	0.0000816
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	J	Yes		C108			C86		0.0439	J	Yes	0.00391
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No		Yes		C108			C86		0.00582		Yes	0.000692
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No		Yes		C108			C86		0.00107		Yes	0.0000861
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No		Yes		C108			C86		0.00416		Yes	0.000478
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		Yes		C108			C86		0.015		Yes	0.000625
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No		Yes		C108			C86		0.00195		Yes	0.000762
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No		Yes		C108			C86		0.0106		Yes	0.000337
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No		Yes		C108			C86		0.00258		Yes	0.000184

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	B-127 g/kg		PCB-128 µg/kg			PCB-129 µg/kg		
								Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	U	No	2.09		Yes	18.5		Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	U	No	0.492		Yes	3.49		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	U	No	0.398		Yes	2.88		Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	UJ	No	12.6	J	Yes	92.3	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	U	No	0.473		Yes	3.55		Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	UJ	No	2.5	J	Yes	15.6	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	U	No	5.5	J	Yes	34.3	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	U	No	0.548		Yes	4.18		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	U	No	0.921		Yes	6.68		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	U	No	2.26		Yes	17.4	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	U	No	1.09		Yes	7.07		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	U	No	0.443		Yes	3.78		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	U	No	0.352		Yes	2.68		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes		Yes	0.353		Yes	2.39		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	U	No	0.455		Yes	3.13		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	U	No	1		Yes	6.12		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	U	No	0.353		Yes	2.67		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	U	No	2.23		Yes	13.5	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	U	No	0.23		Yes	1.66		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	UJ	No	1.14	J	Yes	9.13	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	U	No	0.612		Yes	4.44		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	U	No	0.191		Yes	1.33		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	UJ	No	0.466	J	Yes	3.55	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	UJ	No	0.621	J	Yes	0.00436	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	U	No	0.556		Yes	3.6		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	U	No	1.17		Yes	8.58		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	UJ	No	0.0707	J	Yes	0.579	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	U	No	0.459		Yes	3.28		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	U	No	0.179		Yes	1.32		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	U	No	0.205		Yes	1.37		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	U	No	0.247		Yes	1.53		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No		Yes	0.225		Yes	1.61		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	UJ	No	3.23	J	Yes	19.5	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	UJ	No	2.63	J	Yes	16	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	U	No	0.0936		Yes	0.634		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	UJ	No	0.154	J	Yes	0.956	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	U	No	0.263		Yes	1.64		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	U	No	0.0772		Yes	0.522		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	UJ	No	1.89	J	Yes	12.1	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	EMPC-J	Yes	0.184		Yes	1.3		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	U	No	0.0499		Yes	0.333		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	U	No	0.228		Yes	1.74		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	U	No	0.566		Yes	3.89		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	EMPC-J	Yes	0.0986		Yes	0.684		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	U	No	1.68		Yes	8.64		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	U	No	0.0973		Yes	0.642		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-130 µg/kg			PCB-131 µg/kg			PCB-132 µg/kg			PCB-133 µg/kg			PCB-134 µg/kg	
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	0.887		Yes	0.217	J	Yes	5.6		Yes	0.344	J	Yes	1.17	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	0.176		Yes	0.0328	J	Yes	1.09		Yes	0.0711		Yes	0.17	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	0.135		Yes	0.0165	U	No	0.853		Yes	0.0304	J	Yes	0.0872	J
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	4.78	J	Yes	0.68	J	Yes	33.8	J	Yes	1.25	J	Yes	4.84	J
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	0.142	J	Yes	0.045	U	No	1.08		Yes	0.0413	U	No	0.132	J
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	0.876	J	Yes	0.0992	J	Yes	5.55	J	Yes	0.193	J	Yes	0.705	J
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	2.26	J	Yes	0.48	J	Yes	11	J	Yes	0.494		Yes	2.13	J
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.233		Yes	0.0471		Yes	1.28		Yes	0.0707		Yes	0.248	
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	0.382		Yes	0.0735		Yes	2.03		Yes	0.104		Yes	0.387	
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	1.07		Yes	0.208		Yes	5.72	J	Yes	0.37		Yes	1.09	
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	0.417		Yes	0.0867		Yes	2.1		Yes	0.125		Yes	0.4	
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.209		Yes	0.0362		Yes	0.986		Yes	0.0577		Yes	0.186	
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.156		Yes	0.0286		Yes	0.797		Yes	0.04		Yes	0.147	
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.142		Yes	0.0263		Yes	0.709		Yes	0.038		Yes	0.107	
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.184		Yes	0.0379		Yes	0.999		Yes	0.052		Yes	0.158	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.381		Yes	0.0801		Yes	1.94		Yes	0.11		Yes	0.307	
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.141		Yes	0.0281		Yes	0.805		Yes	0.0531		Yes	0.148	
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.797		Yes	0.131		Yes	2.93		Yes	0.195		Yes	0.881	
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.0921		Yes	0.0176		Yes	0.489		Yes	0.0246		Yes	0.08	
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.438	J	Yes	0.0891	J	Yes	2.58	J	Yes	0.128	J	Yes	0.516	J
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.252		Yes	0.0499		Yes	1.27		Yes	0.0912		Yes	0.208	
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.0748		Yes	0.0157		Yes	0.432		Yes	0.0196		Yes	0.0719	
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.191	J	Yes	0.0417	J	Yes	1.1	J	Yes	0.0512	J	Yes	0.187	J
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	0.245	J	Yes	0.0462	J	Yes	1.21	J	Yes	0.0733	J	Yes	0.212	J
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.247		Yes	0.0452		Yes	1.1		Yes	0.132		Yes	0.199	
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.482		Yes	0.0964		Yes	2.21		Yes	0.188		Yes	0.467	
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.0389	EMPC-J	Yes	0.0101	UJ	No	0.172	J	Yes	0.00957	UJ	No	0.0112	UJ
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.204		Yes	0.0438		Yes	1.12		Yes	0.0611		Yes	0.188	
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.0769		Yes	0.0161		Yes	0.431		Yes	0.0266		Yes	0.0723	
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.0839		Yes	0.0179		Yes	0.457		Yes	0.0207		Yes	0.0777	
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.0967		Yes	0.0165		Yes	0.459		Yes	0.0239		Yes	0.0661	
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.0895		Yes	0.0185		Yes	0.474		Yes	0.0217		Yes	0.0864	
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	1.19	J	Yes	0.241	J	Yes	5.34	J	Yes	0.223	J	Yes	0.977	J
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	1.02	J	Yes	0.2	J	Yes	5.08	J	Yes	0.226	J	Yes	0.846	J
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.0367		Yes	0.00768		Yes	0.192		Yes	0.00809		Yes	0.0346	
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.0563	J	Yes	0.00885	EMPC-J	Yes	0.276	J	Yes	0.0131	J	Yes	0.0494	J
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.101		Yes	0.0222		Yes	0.551		Yes	0.0218		Yes	0.0872	
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.0308		Yes	0.00669		Yes	0.175		Yes	0.00674		Yes	0.0302	
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	0.708	J	Yes	0.131	J	Yes	3.48	J	Yes	0.161	J	Yes	0.645	J
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.0737		Yes	0.0154		Yes	0.424		Yes	0.0174		Yes	0.0618	
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.0193		Yes	0.00398		Yes	0.105		Yes	0.00423		Yes	0.017	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.101		Yes	0.0243		Yes	0.59		Yes	0.0293		Yes	0.0977	
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.235		Yes	0.0468		Yes	1.25		Yes	0.0526		Yes	0.205	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.0391		Yes	0.00877		Yes	0.22		Yes	0.00762		Yes	0.0385	
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.594		Yes	0.152		Yes	3.13		Yes	0.0841		Yes	0.597	
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.0398		Yes	0.00901		Yes	0.211		Yes	0.00689		Yes	0.0364	

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background		PCB-135			PCB-136			PCB-137			PCB-138		
									µg/kg			µg/kg			µg/kg			µg/kg		
								Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	Yes	7.44		Yes	2.49		Yes	0.68	J	Yes		C129	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	Yes	1.15		Yes	0.451		Yes	0.15		Yes		C129	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	Yes	1		Yes	0.335		Yes	0.0945	J	Yes		C129	
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	Yes	28.7	J	Yes	10.4	J	Yes	3.7	J	Yes		C129	
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	Yes	1.19		Yes	0.426		Yes	0.0905	J	Yes		C129	
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	Yes	5.23	J	Yes	1.8	J	Yes	0.65	J	Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	Yes	8.92	J	Yes	4.15	J	Yes	1.96	J	Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	Yes	1.37		Yes	0.564		Yes	0.169		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	Yes	2.18		Yes	0.878		Yes	0.24		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	Yes	6.15		Yes	2.71		Yes	0.681		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	Yes	2.12		Yes	0.881		Yes	0.308		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	Yes	0.995		Yes	0.54		Yes	0.134		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	Yes	0.811		Yes	0.329		Yes	0.094		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	0.737		Yes	0.274		Yes	0.0874		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	1.06		Yes	0.383		Yes	0.108		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	1.89		Yes	0.722		Yes	0.244	J	Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	1.05		Yes	0.384		Yes	0.0677		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	Yes	2.72		Yes	1.06		Yes	0.837		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	Yes	0.499		Yes	0.189		Yes	0.0634		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	Yes	3.62	J	Yes	1.25	J	Yes	0.00102	UJ	No		C129	
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	Yes	1.33		Yes	0.51		Yes	0.171		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	Yes	0.495		Yes	0.21		Yes	0.0525		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	Yes	1.21	J	Yes	0.441	J	Yes	0.13	J	Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	Yes	1.2	J	Yes	0.463	J	Yes	0.117	J	Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	Yes	1.18		Yes	0.424		Yes	0.17		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	Yes	2.5		Yes	0.826		Yes	0.449		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	No	0.194	J	Yes	0.0615	J	Yes	0.0188	EMPC-J	Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	1.18		Yes	0.426		Yes	0.000398	U	No		C129	
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	0.505		Yes	0.188		Yes	0.0447		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	0.488		Yes	0.177		Yes	0.0529		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	0.465		Yes	0.175		Yes	0.0433		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	0.511		Yes	0.207		Yes	0.0541		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	3.99	J	Yes	1.57	J	Yes	1.09	J	Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	4.25	J	Yes	1.76	J	Yes	0.794	J	Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	0.195		Yes	0.0778		Yes	0.0231		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	0.265	J	Yes	0.101	J	Yes	0.0374	J	Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	0.54		Yes	0.199		Yes	0.0528		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	0.186		Yes	0.0713		Yes	0.0175		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	3.34	J	Yes	1.41	J	Yes	0.521	J	Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	0.46		Yes	0.205		Yes	0.0322		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	0.106		Yes	0.0415		Yes	0.011		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	0.668		Yes	0.241		Yes	0.000369	U	No		C129	
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	1.21		Yes	0.474		Yes	0.148		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	0.228		Yes	0.092		Yes	0.0285		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	1.74		Yes	1.02		Yes	0.514		Yes		C129	
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	0.179		Yes	0.0846		Yes	0.0301		Yes		C129	

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-139 µg/kg			PCB-140 µg/kg			PCB-141 µg/kg			PCB-142 µg/kg		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	0.276	J	Yes		C139		4.03		Yes	0.072	U	No
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	0.0555		Yes		C139		0.585		Yes	0.012	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	0.0362	J	Yes		C139		0.584		Yes	0.0159	U	No
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	1.1	J	Yes		C139		18.5	J	Yes	0.634	UJ	No
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	0.0377	U	No		C139		0.616		Yes	0.0433	U	No
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	0.246	J	Yes		C139		2.8	J	Yes	0.067	UJ	No
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	0.625	J	Yes		C139		5.61	J	Yes	0.00605	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.0667		Yes		C139		0.732		Yes	0.00097	U	No
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	0.102		Yes		C139		1.14		Yes	0.00121	U	No
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	0.322		Yes		C139		3.15		Yes	0.000964	U	No
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	0.126		Yes		C139		1.2		Yes	0.00166	U	No
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.0464		Yes		C139		0.666		Yes	0.000414	U	No
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.0412		Yes		C139		0.468		Yes	0.000905	U	No
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.0379		Yes		C139		0.415		Yes	0.000106	U	No
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.0526		Yes		C139		0.562		Yes	0.000429	U	No
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.109		Yes		C139		1.02		Yes	0.000313	U	No
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.0403		Yes		C139		0.543		Yes	0.000117	U	No
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.198		Yes		C139		1.79		Yes	0.000692	U	No
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.0245		Yes		C139		0.273		Yes	0.000685	U	No
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.128	J	Yes		C139		2.11	J	Yes	0.00119	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.0713		Yes		C139		0.699		Yes	0.00126	U	No
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.0198		Yes		C139		0.234		Yes	0.000878	U	No
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.0564	J	Yes		C139		0.611	J	Yes	0.00107	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	0.0668	J	Yes		C139		0.685	J	Yes	0.00499	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.0954		Yes		C139		0.642		Yes	0.000964	U	No
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.174		Yes		C139		1.45		Yes	0.00167	U	No
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.00877	UJ	No		C139		0.0908	J	Yes	0.0102	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.056		Yes		C139		0.582		Yes	0.000509	U	No
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.0218		Yes		C139		0.242		Yes	0.000125	U	No
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.0232		Yes		C139		0.246		Yes	0.000133	U	No
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.0246		Yes		C139		0.237		Yes	0.000249	U	No
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.0226		Yes		C139		0.276		Yes	0.0000745	U	No
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	0.368	J	Yes		C139		2.89	J	Yes	0.00206	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	0.294	J	Yes		C139		2.56	J	Yes	0.00492	EMPC-J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.00965		Yes		C139		0.11		Yes	0.00012	U	No
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.0137	J	Yes		C139		0.159	J	Yes	0.0022	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.0277		Yes		C139		0.291		Yes	0.00013	U	No
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.00821		Yes		C139		0.0934		Yes	0.0000542	U	No
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	0.168	J	Yes		C139		2.06	J	Yes	0.00125	UJ	No
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.0182		Yes		C139		0.24		Yes	0.000196	U	No
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.00492		Yes		C139		0.0589		Yes	0.0000762	U	No
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.0288		Yes		C139		0.333		Yes	0.000447	U	No
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.0606		Yes		C139		0.677		Yes	0.000484	U	No
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.0106		Yes		C139		0.119		Yes	0.000133	U	No
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.16		Yes		C139		1.3		Yes	0.0028		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.00991		Yes		C139		0.106		Yes	0.000163	U	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-143 µg/kg			PCB-144 µg/kg			PCB-145 µg/kg			PCB-146 µg/kg		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes		C134		0.844		Yes	0.0435	U	No	2.59		Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes		C134		0.11	J	Yes	0.00801	U	No	0.477		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes		C134		0.096	J	Yes	0.0146	U	No	0.39		Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes		C134		2.4	J	Yes	0.336	UJ	No	14.3	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes		C134		0.137	J	Yes	0.0349	U	No	0.491		Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes		C134		0.462	J	Yes	0.0476	UJ	No	2.25	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	0.0835	J	Yes	1.32	J	Yes	0.0148	J	Yes	4.8	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.0114		Yes	0.181		Yes	0.00187		Yes	0.632		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	0.0173		Yes	0.273		Yes	0.000785	U	No	1.01		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	0.0608		Yes	0.746		Yes	0.000691	U	No	3.07		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	0.0202		Yes	0.273		Yes	0.00346	EMPC-J	Yes	1.09		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.00776		Yes	0.126		Yes	0.000513	U	No	0.51		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.00958		Yes	0.103		Yes	0.000684	U	No	0.38		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.0107		Yes	0.0945		Yes	0.0000698	U	No	0.344		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.00949		Yes	0.136		Yes	0.00109		Yes	0.448		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.0174	J	Yes	0.252		Yes	0.00204		Yes	0.932		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.000109	U	No	0.129		Yes	0.000836		Yes	0.409		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.0344		Yes	0.298		Yes	0.000511	U	No	1.39		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.00258		Yes	0.0658		Yes	0.000483	U	No	0.223		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.00107	UJ	No	0.466	J	Yes	0.00517	J	Yes	1.42	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.0122		Yes	0.172		Yes	0.00108	U	No	0.661		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.00385		Yes	0.0626		Yes	0.000643	U	No	0.186		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.00689	J	Yes	0.157	J	Yes	0.000724	UJ	No	0.477	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	0.00448	UJ	No	0.15	J	Yes	0.00307	UJ	No	0.00432	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.0164		Yes	0.166		Yes	0.00375	EMPC-J	Yes	0.862		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.0196		Yes	0.304		Yes	0.00358		Yes	1.35		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.0094	UJ	No	0.0216	EMPC-J	Yes	0.00598	UJ	No	0.119	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.000492	U	No	0.153		Yes	0.000308	U	No	0.501		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.00528		Yes	0.0619		Yes	0.0000753	U	No	0.19		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.00163		Yes	0.0649		Yes	0.0000754	U	No	0.197		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.00759		Yes	0.057		Yes	0.000493	J	Yes	0.236		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.00263		Yes	0.0666		Yes	0.000536	J	Yes	0.201		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	0.0409	J	Yes	0.63	J	Yes	0.00609	J	Yes	2.28	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	0.0553	J	Yes	0.579	J	Yes	0.006	EMPC-J	Yes	2.27	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.00167		Yes	0.0257		Yes	0.0000899	U	No	0.0796		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.0035	J	Yes	0.037	J	Yes	0.00151	UJ	No	0.125	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.00497		Yes	0.0744		Yes	0.0000796	U	No	0.222		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.0000511	U	No	0.0241		Yes	0.000204	J	Yes	0.0724		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	0.0281	J	Yes	0.463	J	Yes	0.00112	UJ	No	1.59	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.00663		Yes	0.0603		Yes	0.000455	J	Yes	0.182		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.000915		Yes	0.0141		Yes	0.0000981	EMPC-J	Yes	0.044		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.00466		Yes	0.0873		Yes	0.000271	U	No	0.246		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.0095		Yes	0.16		Yes	0.000304	U	No	0.558		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.0026		Yes	0.0304		Yes	0.000209	EMPC-J	Yes	0.0914		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.0000722	U	No	0.315		Yes	0.00391		Yes	0.894		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.00206		Yes	0.0255		Yes	0.000221	EMPC-J	Yes	0.0789		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-147 µg/kg			PCB-148 µg/kg			PCB-149 µg/kg			PCB-150 µg/kg			
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	18		Yes	0.0609	U	No		C147		0.18	J	Yes	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	2.93		Yes	0.0307	J	Yes		C147		0.0316	J	Yes	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	2.23		Yes	0.0204	U	No		C147		0.0142	U	No	
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	83.4	J	Yes	0.469	UJ	No		C147		0.327	UJ	No	
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	2.64		Yes	0.0489	U	No		C147		0.0341	U	No	
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	12.4	J	Yes	0.0665	UJ	No		C147		0.0464	UJ	No	
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	23.7	J	Yes	0.0705		Yes		C147		0.0977		Yes	
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	3.41		Yes	0.0172		Yes		C147		0.0246		Yes	
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	5.3		Yes	0.025		Yes		C147		0.033		Yes	
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	14.9	J	Yes	0.114		Yes		C147		0.14		Yes	
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	5.24		Yes	0.0328		Yes		C147		0.0332		Yes	
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	2.46		Yes	0.013		Yes		C147		0.0263		Yes	
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	2		Yes	0.0098		Yes		C147		0.0116		Yes	
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	1.75		Yes	0.00844		Yes		C147		0.0101		Yes	
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	2.56		Yes	0.012		Yes		C147		0.0141		Yes	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	4.63		Yes	0.0233		Yes		C147		0.0247		Yes	
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	2.43		Yes	0.018		Yes		C147		0.0227		Yes	
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	6.65		Yes	0.0255		Yes		C147		0.0465		Yes	
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	1.22		Yes	0.0052		Yes		C147		0.00744		Yes	
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	8.04	J	Yes	0.0216	J	Yes		C147		0.029	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	3.16		Yes	0.0189		Yes		C147		0.0222		Yes	
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	1.13		Yes	0.00358	EMPC-J	Yes		C147		0.00616		Yes	
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	2.84	J	Yes	0.0131	J	Yes		C147		0.0154	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	2.83	J	Yes	0.0145	J	Yes		C147		0.013	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	2.77		Yes	0.0397		Yes		C147		0.0294		Yes	
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	5.95		Yes	0.0512		Yes		C147		0.0575		Yes	
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.45	J	Yes	0.00889	UJ	No		C147		0.00581	UJ	No	
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	2.86		Yes	0.0154		Yes		C147		0.014		Yes	
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	1.24		Yes	0.0128		Yes		C147		0.0104		Yes	
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	1.15		Yes	0.00373		Yes		C147		0.00395		Yes	
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	1.12		Yes	0.00419		Yes		C147		0.0044		Yes	
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	1.19		Yes	0.00355		Yes		C147		0.00483		Yes	
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	10.9	J	Yes	0.0244	J	Yes		C147		0.0236	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	11.1	J	Yes	0.0336	J	Yes		C147		0.0357	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.468		Yes	0.000817	J	Yes		C147		0.00102		Yes	
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.647	J	Yes	0.0019	UJ	No		C147		0.00139	UJ	No	
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	1.29		Yes	0.00303		Yes		C147		0.00362		Yes	
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.431		Yes	0.000742	J	Yes		C147		0.00102		Yes	
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	8.23	J	Yes	0.0191	J	Yes		C147		0.0198	J	Yes	
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	1.07		Yes	0.00226		Yes		C147		0.00277		Yes	
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.259		Yes	0.000336	EMPC-J	Yes		C147		0.000362	EMPC-J	Yes	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	1.53		Yes	0.00644		Yes		C147		0.00357		Yes	
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	3.02		Yes	0.0101		Yes		C147		0.0149		Yes	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.55		Yes	0.000733	J	Yes		C147		0.00116		Yes	
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	5.04		Yes	0.00345		Yes		C147		0.00636		Yes	
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.458		Yes	0.000434	J	Yes		C147		0.000647	EMPC-J	Yes	

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-151 µg/kg		PCB-152 µg/kg			PCB-153 µg/kg			PCB-154 µg/kg		
								Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	C135		0.171	J	Yes	17.4		Yes	0.395	J	Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	C135		0.0235	J	Yes	2.67		Yes	0.0816		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	C135		0.0145	U	No	2.25		Yes	0.0293	J	Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	C135		0.334	UJ	No	83.6	J	Yes	0.915	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	C135		0.0347	U	No	2.76		Yes	0.0405	U	No
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	C135		0.0473	UJ	No	13.6	J	Yes	0.114	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	C135		0.0474	J	Yes	24	J	Yes	0.543		Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	C135		0.0231		Yes	3.3		Yes	0.0772		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	C135		0.027		Yes	5.23		Yes	0.1		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	C135		0.0891		Yes	14.2	J	Yes	0.427		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	C135		0.0244		Yes	5.68		Yes	0.12		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	C135		0.0242		Yes	2.82		Yes	0.0523		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	C135		0.00948		Yes	2.08		Yes	0.0403		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	C135		0.00841		Yes	1.74		Yes	0.0378		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	C135		0.0122		Yes	2.35		Yes	0.0534		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	C135		0.0154		Yes	4.53		Yes	0.109		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	C135		0.0217		Yes	2.35		Yes	0.0547		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	C135		0.0378		Yes	7.54		Yes	0.139		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	C135		0.0062		Yes	1.18		Yes	0.0255		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	C135		0.0116	J	Yes	9.33	J	Yes	0.171	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	C135		0.0194		Yes	3.27		Yes	0.0775		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	C135		0.00641		Yes	1.02		Yes	0.0215		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	C135		0.0166	J	Yes	2.69	J	Yes	0.0518	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	C135		0.00287	UJ	No	3.04	J	Yes	0.0689	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	C135		0.0169		Yes	2.71		Yes	0.15		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	C135		0.0466		Yes	6.29		Yes	0.223		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	C135		0.00552	UJ	No	0.454	J	Yes	0.00798	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	C135		0.0139		Yes	2.52		Yes	0.000412	U	No
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	C135		0.01		Yes	1.02		Yes	0.0242		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	C135		0.00382		Yes	1.04		Yes	0.018		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	C135		0.00333		Yes	1.23		Yes	0.0274		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	C135		0.00446		Yes	1.2		Yes	0.0182		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	C135		0.0181	J	Yes	13.1	J	Yes	0.171	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	C135		0.014	EMPC-J	Yes	12.5	J	Yes	0.187	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	C135		0.000993		Yes	0.476		Yes	0.00585		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	C135		0.00142	UJ	No	0.688	J	Yes	0.00914	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	C135		0.00309		Yes	1.2		Yes	0.0182		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	C135		0.00101		Yes	0.383		Yes	0.00519		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	C135		0.0166	J	Yes	8.96	J	Yes	0.103	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	C135		0.0027		Yes	1.02		Yes	0.013		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	C135		0.000353	J	Yes	0.249		Yes	0.00276		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	C135		0.00225		Yes	1.33		Yes	0.0229		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	C135		0.00527		Yes	3.07		Yes	0.0971		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	C135		0.00103		Yes	0.542		Yes	0.0061		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	C135		0.00794		Yes	4.91		Yes	0.0471		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	C135		0.000667	J	Yes	0.457		Yes	0.00431		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-155 µg/kg			PCB-156 µg/kg			PCB-157 µg/kg			PCB-158 µg/kg			PC µ
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	0.0413	U	No	1.44		Yes		C156		1.75		Yes	0.187
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	0.00759	U	No	0.351		Yes		C156		0.34		Yes	0.0233
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	0.0138	U	No	0.278		Yes		C156		0.279		Yes	0.0347
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	0.318	UJ	No	7.65	J	Yes		C156		9.02	J	Yes	0.782
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	0.0331	U	No	0.359	J	Yes		C156		0.325	J	Yes	0.0288
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	0.0451	UJ	No	1.63	J	Yes		C156		1.55	J	Yes	0.125
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	0.0246		Yes	4.72	J	Yes		C156		3.48	J	Yes	0.00614
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.00487		Yes	0.403		Yes		C156		0.389		Yes	0.00195
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	0.00693		Yes	0.661		Yes		C156		0.618		Yes	0.00408
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	0.0279		Yes	1.85		Yes		C156		1.58		Yes	0.00389
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	0.00986	EMPC-J	Yes	0.778		Yes		C156		0.665		Yes	0.00437
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.00573		Yes	0.357		Yes		C156		0.357		Yes	0.00138
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.00274	EMPC-J	Yes	0.28		Yes		C156		0.252		Yes	0.00155
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.00295		Yes	0.279		Yes		C156		0.228		Yes	0.000499
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.00381		Yes	0.35		Yes		C156		0.3		Yes	0.00107
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.00497		Yes	0.819		Yes		C156		0.592		Yes	0.00135
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.00388		Yes	0.29		Yes		C156		0.244		Yes	0.000524
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.00429	EMPC-J	Yes	2.46		Yes		C156		1.38		Yes	0.00251
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.00265		Yes	0.184		Yes		C156		0.152		Yes	0.00108
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.012	J	Yes	1.06	J	Yes		C156		0.808	J	Yes	0.00948
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.00919		Yes	0.495		Yes		C156		0.409		Yes	0.00309
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.00118	EMPC-J	Yes	0.134		Yes		C156		0.121		Yes	0.00145
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.006	J	Yes	0.329	J	Yes		C156		0.334	J	Yes	0.00188
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	0.00316	UJ	No	0.45	J	Yes		C156		0.372	J	Yes	0.0106
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.00713	EMPC-J	Yes	0.512		Yes		C156		0.382		Yes	0.0023
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.00724		Yes	1.22		Yes		C156		0.874		Yes	0.0034
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.00603	UJ	No	0.069	J	Yes		C156		0.0566	J	Yes	0.0175
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.00712		Yes	0.354		Yes		C156		0.302		Yes	0.00131
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.00822		Yes	0.13		Yes		C156		0.121		Yes	0.000343
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.0012		Yes	0.147		Yes		C156		0.128		Yes	0.000398
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.00169		Yes	0.186		Yes		C156		0.138		Yes	0.000786
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.00177		Yes	0.171		Yes		C156		0.153		Yes	0.000386
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	0.00872	EMPC-J	Yes	3.3	J	Yes		C156		2	J	Yes	0.00729
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	0.00768	J	Yes	2.02	J	Yes		C156		1.51	J	Yes	0.00771
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.00041	EMPC-J	Yes	0.0626		Yes		C156		0.0595		Yes	0.000298
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.00148	UJ	No	0.116	J	Yes		C156		0.0906	J	Yes	0.00539
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.0015		Yes	0.185		Yes		C156		0.158		Yes	0.000332
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.000335	J	Yes	0.0565		Yes		C156		0.0497		Yes	0.000132
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	0.0149	J	Yes	1.51	J	Yes		C156		1.14	J	Yes	0.00501
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.00109		Yes	0.127		Yes		C156		0.118		Yes	0.000456
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.000264	EMPC-J	Yes	0.0347		Yes		C156		0.0309		Yes	0.000175
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.0011	EMPC-J	Yes	0.165		Yes		C156		0.17		Yes	0.000791
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.00467		Yes	0.45		Yes		C156		0.384		Yes	0.00105
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.00031	J	Yes	0.0663		Yes		C156		0.0657		Yes	0.000233
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.000285	EMPC-J	Yes	1.41		Yes		C156		0.937		Yes	0.000515
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.00022	J	Yes	0.0707		Yes		C156		0.0641		Yes	0.000257

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	B-159 g/kg			PCB-160 µg/kg			PCB-161 µg/kg			PCB-162 µg/kg		
								Qual	Detect		Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	J	Yes			C129		0.0476	U	No	0.0473	U	No
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	J	Yes			C129		0.00793	U	No	0.0125	J	Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	J	Yes			C129		0.0105	U	No	0.0104	U	No
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	J	Yes			C129		0.42	UJ	No	0.416	UJ	No
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	U	No			C129		0.0286	U	No	0.0284	U	No
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	J	Yes			C129		0.0444	UJ	No	0.044	UJ	No
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	U	No		0.00115	U	No	0.00108	U	No	0.0884	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	U	No		0.000678	U	No	0.000637	U	No	0.0133		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	U	No		0.000842	U	No	0.000791	U	No	0.0156		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	U	No		0.00072	U	No	0.000649	U	No	0.00369	U	No
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	U	No		0.00124	U	No	0.00112	U	No	0.0177		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	U	No		0.00262		Yes	0.000279	U	No	0.00131	U	No
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	U	No		0.000675	U	No	0.000609	U	No	0.00147	U	No
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	U	No		0.0000792	U	No	0.0000749	U	No	0.00727		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	U	No		0.000305	U	No	0.000296	U	No	0.00762		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	U	No		0.000229	U	No	0.00022	U	No	0.0117		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	U	No		0.000085	U	No	0.0000821	U	No	0.00769		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	U	No		0.000517	U	No	0.000466	U	No	0.05		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	U	No		0.000476	U	No	0.000496	U	No	0.00436		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	UJ	No		0.000853	UJ	No	0.000813	UJ	No	0.0585	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	U	No		0.000877	U	No	0.000914	U	No	0.0242		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	U	No		0.00061	U	No	0.000636	U	No	0.00445		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	UJ	No		0.000741	UJ	No	0.000773	UJ	No	0.00861	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	UJ	No		3.36	J	Yes	0.488	J	Yes	0.0102	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	U	No		0.000716	U	No	0.00293		Yes	0.0407		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	U	No		0.00124	U	No	0.00122	U	No	0.0267		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	UJ	No		0.00708	UJ	No	0.00692	UJ	No	0.0169	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	U	No		0.000323	U	No	0.000339	U	No	0.0111		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	U	No		0.000922		Yes	0.0000874	U	No	0.00412		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	U	No		0.000096	U	No	0.0000928	U	No	0.00472		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	U	No		0.00018	U	No	0.000174	U	No	0.00397		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	U	No		0.00195		Yes	0.0000512	U	No	0.000342	U	No
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	UJ	No		0.00153	UJ	No	0.00138	UJ	No	0.0732	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	UJ	No		0.00143	UJ	No	0.0013	UJ	No	0.0446	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	U	No		0.0000896	U	No	0.0000825	U	No	0.00186		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	UJ	No		0.00164	UJ	No	0.00148	UJ	No	0.00523	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	U	No		0.0000902	U	No	0.0000859	U	No	0.00541		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	U	No		0.0000377	U	No	0.0000359	U	No	0.00143		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	UJ	No		0.000928	UJ	No	0.000838	UJ	No	0.0372	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	U	No		0.000577	J	Yes	0.00016	EMPC-J	Yes	0.00393		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	U	No		0.000053	U	No	0.0000505	U	No	0.000799	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	U	No		0.00356		Yes	0.000309	U	No	0.00341		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	U	No		0.000366	U	No	0.000331	U	No	0.00966		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	U	No		0.00063	J	Yes	0.0000907	U	No	0.00149		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	U	No		0.000062	U	No	0.0000561	U	No	0.0296		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	U	No		0.000123	U	No	0.000111	U	No	0.00148		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-163 µg/kg			PCB-164 µg/kg			PCB-165 µg/kg			PCB-166 µg/kg		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes		C129		1.27		Yes	0.0524	U	No		C128	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes		C129		0.245		Yes	0.0143	J	Yes		C128	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes		C129		0.195		Yes	0.0116	U	No		C128	
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes		C129		6.88	J	Yes	0.461	UJ	No		C128	
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes		C129		0.19	J	Yes	0.0315	U	No		C128	
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes		C129		1.07	J	Yes	0.0488	UJ	No		C128	
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes		C129		2.24	J	Yes	0.0208		Yes		C128	
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes		C129		0.298		Yes	0.00711		Yes		C128	
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes		C129		0.485		Yes	0.00861		Yes		C128	
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes		C129		1.15		Yes	0.0376		Yes		C128	
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes		C129		0.445		Yes	0.0124		Yes		C128	
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes		C129		0.25		Yes	0.00655		Yes		C128	
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes		C129		0.18		Yes	0.000702	U	No		C128	
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes		C129		0.168		Yes	0.00296		Yes		C128	
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes		C129		0.226		Yes	0.00472		Yes		C128	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes		C129		0.525	J	Yes	0.000241	U	No		C128	
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes		C129		0.199		Yes	0.00663		Yes		C128	
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes		C129		0.786		Yes	0.0104		Yes		C128	
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes		C129		0.107		Yes	0.000536	U	No		C128	
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes		C129		0.838	J	Yes	0.00587	EMPC-J	Yes		C128	
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes		C129		0.293		Yes	0.000989	U	No		C128	
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes		C129		0.0869		Yes	0.000687	U	No		C128	
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes		C129		0.234	J	Yes	0.000835	UJ	No		C128	
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes		C129		0.287	J	Yes	0.00372	UJ	No		C128	
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes		C129		0.262		Yes	0.00994		Yes		C128	
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes		C129		0.536		Yes	0.0202		Yes		C128	
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes		C129		0.0366	EMPC-J	Yes	0.00768	UJ	No		C128	
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes		C129		0.22		Yes	0.000374	U	No		C128	
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes		C129		0.0945		Yes	0.00595		Yes		C128	
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes		C129		0.0964		Yes	0.000102	U	No		C128	
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No		C129		0.114		Yes	0.000192	U	No		C128	
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No		C129		0.109		Yes	0.0000516	U	No		C128	
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No		C129		1.11	J	Yes	0.00156	UJ	No		C128	
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No		C129		0.926	J	Yes	0.00146	UJ	No		C128	
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No		C129		0.0425		Yes	0.0000832	U	No		C128	
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No		C129		0.0583	J	Yes	0.00166	UJ	No		C128	
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No		C129		0.124		Yes	0.000769	J	Yes		C128	
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No		C129		0.0391		Yes	0.000182	EMPC-J	Yes		C128	
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No		C129		0.715	J	Yes	0.000942	UJ	No		C128	
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No		C129		0.101		Yes	0.000147	U	No		C128	
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No		C129		0.0241		Yes	0.000057	U	No		C128	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No		C129		0.177		Yes	0.000339	U	No		C128	
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		C129		0.272		Yes	0.000374	U	No		C128	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No		C129		0.0457		Yes	0.000102	U	No		C128	
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No		C129		0.516		Yes	0.0000633	U	No		C128	
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No		C129		0.0409		Yes	0.000126	U	No		C128	

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-167 µg/kg			PCB-168 µg/kg			PCB-169 µg/kg			PCB-170 µg/kg			F
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	0.469		Yes		C153		0.123	J	Yes	5.91		Yes	1.71
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	0.111		Yes		C153		0.00839	U	No	1.01		Yes	0.289
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	0.0807		Yes		C153		0.0104	U	No	1.02		Yes	0.256
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	2.32	J	Yes		C153		0.474	UJ	No	21.6	J	Yes	5.8
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	0.0979	J	Yes		C153		0.0261	U	No	0.788		Yes	0.198
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	0.476	J	Yes		C153		0.323	J	Yes	3.41	J	Yes	1.09
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	1.4	J	Yes		C153		0.00827	UJ	No	6.63	J	Yes	2.01
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.145		Yes		C153		0.00245	UJ	No	1.05		Yes	0.304
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	0.247		Yes		C153		0.00481	UJ	No	1.52		Yes	0.484
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	0.605		Yes		C153		0.00503	U	No	4.16	J	Yes	1.33
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	0.272		Yes		C153		0.00624	U	No	1.66		Yes	0.547
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.123		Yes		C153		0.00178	U	No	0.957		Yes	0.288
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.0914		Yes		C153		0.00183	U	No	0.645		Yes	0.213
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.0944		Yes		C153		0.000745	U	No	0.616		Yes	0.199
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.118		Yes		C153		0.00178	U	No	0.803		Yes	0.252
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.255		Yes		C153		0.00192	U	No	1.48		Yes	0.455
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.101		Yes		C153		0.000808	U	No	0.884		Yes	0.292
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.632		Yes		C153		0.00313	U	No	2.22		Yes	0.681
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.0638		Yes		C153		0.00135	U	No	0.416		Yes	0.136
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.351	J	Yes		C153		0.0139	UJ	No	3.86	J	Yes	1.28
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.189		Yes		C153		0.00634	U	No	1.09		Yes	0.326
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.051		Yes		C153		0.00231	U	No	0.263		Yes	0.0837
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.128	J	Yes		C153		0.00265	UJ	No	0.744	J	Yes	0.237
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	0.158	J	Yes		C153		0.0164	UJ	No	0.846	J	Yes	0.324
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.201		Yes		C153		0.00258	U	No	0.877		Yes	0.321
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.396		Yes		C153		0.00367	U	No	2.51		Yes	0.713
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.0233	J	Yes		C153		0.0245	UJ	No	0.118	J	Yes	0.0422
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.123		Yes		C153		0.00164	U	No	0.687		Yes	0.216
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.0485		Yes		C153		0.000501	U	No	0.323		Yes	0.109
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.0522		Yes		C153		0.000649	U	No	0.276		Yes	0.095
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.0637		Yes		C153		0.00133	U	No	0.396		Yes	0.135
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.0589		Yes		C153		0.000552	U	No	0.345		Yes	0.109
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	0.912	J	Yes		C153		0.0101	UJ	No	3.23	J	Yes	0.915
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	0.671	J	Yes		C153		0.00902	UJ	No	3.15	J	Yes	1.06
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.0245		Yes		C153		0.000412	U	No	0.126		Yes	0.0413
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.0415	J	Yes		C153		0.00876	UJ	No	0.267	J	Yes	0.0641
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.0649		Yes		C153		0.000524	U	No	0.35		Yes	0.12
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.0195		Yes		C153		0.000186	U	No	0.0987		Yes	0.0323
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	0.506	J	Yes		C153		0.00856	UJ	No	3.09	J	Yes	0.901
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.0464		Yes		C153		0.000684	U	No	0.318		Yes	0.107
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.0128		Yes		C153		0.000274	U	No	0.0712		Yes	0.024
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.0572		Yes		C153		0.00129	U	No	0.299		Yes	0.103
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.152		Yes		C153		0.00159	U	No	0.854		Yes	0.269
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.0248		Yes		C153		0.00034	U	No	0.142		Yes	0.0447
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.391		Yes		C153		0.000793	U	No	0.875		Yes	0.293
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.0245		Yes		C153		0.000378	U	No	0.106		Yes	0.0368

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-171 µg/kg			PCB-172 µg/kg			PCB-173 µg/kg			PCB-174 µg/kg			PCB-175 µg/kg		
								Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes		Yes	0.926		Yes		C171		6.43		Yes	0.252	J	Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes		Yes	0.17		Yes		C171		0.993		Yes	0.0356	J	Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes		Yes	0.13	J	Yes		C171		1.02		Yes	0.0294	J	Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	J	Yes	2.91	J	Yes		C171		25.6	J	Yes	0.408	UJ	No
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	J	Yes	0.143	J	Yes		C171		0.876		Yes	0.037	U	No
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	J	Yes	0.754	J	Yes		C171		4.98	J	Yes	0.202	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	J	Yes	1.1	J	Yes		C171		7.41	J	Yes	0.274	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes		Yes	0.187		Yes		C171		1.22		Yes	0.0431		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes		Yes	0.286		Yes		C171		1.87		Yes	0.0687		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes		Yes	0.768		Yes		C171		5.44	J	Yes	0.191		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes		Yes	0.339		Yes		C171		2.4		Yes	0.0848		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes		Yes	0.172		Yes		C171		1.14		Yes	0.0389		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes		Yes	0.121		Yes		C171		0.86		Yes	0.0303		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes		Yes	0.112		Yes		C171		0.767		Yes	0.0285		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes		Yes	0.139		Yes		C171		0.995		Yes	0.0379		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes		Yes	0.254		Yes		C171		1.72		Yes	0.0655		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes		Yes	0.168		Yes		C171		1.24		Yes	0.0457		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes		Yes	0.313		Yes		C171		1.84		Yes	0.0701		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes		Yes	0.0724		Yes		C171		0.485		Yes	0.0185		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	J	Yes	1	J	Yes		C171		8.11	J	Yes	0.336	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes		Yes	0.201		Yes		C171		1.12		Yes	0.0419		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes		Yes	0.0472		Yes		C171		0.318		Yes	0.0128		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	J	Yes	0.132	J	Yes		C171		0.955	J	Yes	0.0338	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	J	Yes	0.175	J	Yes		C171		1.31	J	Yes	0.0465	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes		Yes	0.51		Yes		C171		1.32		Yes	0.191		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes		Yes	0.416		Yes		C171		2.18		Yes	0.0923		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	EMPC-J	Yes	0.0314	J	Yes		C171		0.158	J	Yes	0.0117	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes		Yes	0.121		Yes		C171		0.856		Yes	0.0309		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes		Yes	0.0627		Yes		C171		0.424		Yes	0.0159		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes		Yes	0.0528		Yes		C171		0.376		Yes	0.0144		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No		Yes	0.0794		Yes		C171		0.555		Yes	0.0216		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No		Yes	0.0615		Yes		C171		0.421		Yes	0.0161		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	J	Yes	0.461	J	Yes		C171		2.88	J	Yes	0.115	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	J	Yes	0.64	J	Yes		C171		4.59	J	Yes	0.182	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No		Yes	0.0232		Yes		C171		0.165		Yes	0.00624		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	J	Yes	0.0368	J	Yes		C171		0.244	J	Yes	0.00783	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No		Yes	0.0625		Yes		C171		0.472		Yes	0.0174		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No		Yes	0.0174		Yes		C171		0.13		Yes	0.00453		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	J	Yes	0.502	J	Yes		C171		3.64	J	Yes	0.128	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No		Yes	0.0579		Yes		C171		0.434		Yes	0.0155		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No		Yes	0.0126		Yes		C171		0.0937		Yes	0.00338		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No		Yes	0.0538		Yes		C171		0.427		Yes	0.0175		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		Yes	0.143		Yes		C171		1.08		Yes	0.0391		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No		Yes	0.0252		Yes		C171		0.192		Yes	0.0068		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No		Yes	0.12		Yes		C171		0.748		Yes	0.0309		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No		Yes	0.0192		Yes		C171		0.143		Yes	0.00516		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-176 µg/kg			PCB-177 µg/kg			PCB-178 µg/kg			PCB-179 µg/kg		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	0.847		Yes	3.38		Yes	1.44		Yes	3.26		Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	0.126		Yes	0.546		Yes	0.258		Yes	0.461		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	0.105		Yes	0.558		Yes	0.181		Yes	0.458		Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	3.09	J	Yes	12.8	J	Yes	4.8	J	Yes	13.4	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	0.105	J	Yes	0.463		Yes	0.129	J	Yes	0.365	J	Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	0.554	J	Yes	2.4	J	Yes	1.28	J	Yes	2.54	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	0.802	J	Yes	3.81	J	Yes	1.38	J	Yes	2.98	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.146		Yes	0.649		Yes	0.271		Yes	0.559		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	0.211		Yes	1.01		Yes	0.396		Yes	0.811		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	0.608		Yes	2.84		Yes	1.17		Yes	2.41		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	0.243		Yes	1.22		Yes	0.509		Yes	0.996		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.131		Yes	0.607		Yes	0.28		Yes	0.494		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.087		Yes	0.459		Yes	0.168		Yes	0.343		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.0749		Yes	0.406		Yes	0.146		Yes	0.288		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.0977		Yes	0.531		Yes	0.188		Yes	0.374		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.17		Yes	0.921		Yes	0.318		Yes	0.643		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.123		Yes	0.634		Yes	0.219		Yes	0.48		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.196		Yes	1.05		Yes	0.323		Yes	0.657		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.0547		Yes	0.266		Yes	0.0989		Yes	0.196		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.672	J	Yes	3.17	J	Yes	1.59	J	Yes	2.82	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.135		Yes	0.636		Yes	0.265		Yes	0.506		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.0434		Yes	0.172		Yes	0.0776		Yes	0.171		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.108	J	Yes	0.498	J	Yes	0.196	J	Yes	0.408	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	0.103	J	Yes	0.696	J	Yes	0.21	J	Yes	0.395	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.24		Yes	0.674		Yes	0.718		Yes	0.831		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.272		Yes	1.38		Yes	0.58		Yes	0.981		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.0175	J	Yes	0.085	J	Yes	0.0327	J	Yes	0.0619	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.0862		Yes	0.44		Yes	0.153		Yes	0.346		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.0431		Yes	0.222		Yes	0.1		Yes	0.185		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.0363		Yes	0.197		Yes	0.0651		Yes	0.141		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.0506		Yes	0.294		Yes	0.101		Yes	0.202		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.0468		Yes	0.214		Yes	0.0869		Yes	0.185		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	0.315	J	Yes	1.61	J	Yes	0.542	J	Yes	1.1	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	0.453	J	Yes	2.12	J	Yes	0.87	J	Yes	1.83	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.0166		Yes	0.0817		Yes	0.0308		Yes	0.0665		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.0281	J	Yes	0.139	J	Yes	0.0512	J	Yes	0.0999	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.0436		Yes	0.246		Yes	0.0735		Yes	0.168		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.0132		Yes	0.0682		Yes	0.023		Yes	0.0539		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	0.381	J	Yes	1.92	J	Yes	0.731	J	Yes	1.45	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.0408		Yes	0.225		Yes	0.0723		Yes	0.161		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.00908		Yes	0.0502		Yes	0.0157		Yes	0.0352		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.049		Yes	0.216		Yes	0.0986		Yes	0.21		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.112		Yes	0.539		Yes	0.2		Yes	0.437		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.021		Yes	0.0931		Yes	0.0358		Yes	0.084		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.0841		Yes	0.415		Yes	0.104		Yes	0.243		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.0145		Yes	0.0756		Yes	0.0258		Yes	0.0544		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-180 µg/kg			PCB-181 µg/kg			PCB-182 µg/kg			PCB-183 µg/kg			PC
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	13		Yes	0.0494	U	No	0.0481	U	No	4.64		Yes	0.0408
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	2.31		Yes	0.00834	U	No	0.00811	U	No	0.755		Yes	0.00688
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	2.32		Yes	0.0124	U	No	0.0121	U	No	0.68		Yes	0.0103
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	47.6	J	Yes	0.408	UJ	No	0.397	UJ	No	17.7	J	Yes	0.337
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	1.84		Yes	0.037	U	No	0.036	U	No	0.569		Yes	0.0306
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	10.3	J	Yes	0.0543	UJ	No	0.0528	UJ	No	3.85	J	Yes	0.0449
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	14.9	J	Yes	0.0803	J	Yes	0.0492	J	Yes	3.3	J	Yes	0.0117
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	2.58		Yes	0.00957		Yes	0.00828		Yes	0.537		Yes	0.00325
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	3.95		Yes	0.0145		Yes	0.0133		Yes	0.865		Yes	0.00402
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	10.7	J	Yes	0.0362		Yes	0.0388		Yes	3.15		Yes	0.00775
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	4.73		Yes	0.0173		Yes	0.0245		Yes	1.2		Yes	0.00994
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	2.43		Yes	0.00924		Yes	0.00831		Yes	0.569		Yes	0.00281
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	1.66		Yes	0.00602		Yes	0.00686		Yes	0.44		Yes	0.00217
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	1.51		Yes	0.00576		Yes	0.00531		Yes	0.359		Yes	0.00222
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	1.99		Yes	0.00731		Yes	0.008		Yes	0.539		Yes	0.00305
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	3.47	J	Yes	0.014		Yes	0.012		Yes	0.823		Yes	0.00375
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	2.57	J	Yes	0.0062		Yes	0.00584		Yes	0.581		Yes	0.00124
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	3.85		Yes	0.0428		Yes	0.0151		Yes	0.929		Yes	0.00286
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.984		Yes	0.00132	U	No	0.00258		Yes	0.27		Yes	0.000641
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	13.1	J	Yes	0.0122	UJ	No	0.0117	UJ	No	3.93	J	Yes	0.0622
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	2.4		Yes	0.00843	EMPC-J	Yes	0.00664		Yes	0.627		Yes	0.00818
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.597		Yes	0.00186	U	No	0.00185	U	No	0.162		Yes	0.000955
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	1.88	J	Yes	0.0054	EMPC-J	Yes	0.00399	EMPC-J	Yes	0.535	J	Yes	0.00085
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	2.27	J	Yes	0.0113	UJ	No	0.0118	J	Yes	0.527	J	Yes	0.00332
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	2.74	J	Yes	0.0233		Yes	0.104		Yes	1.1		Yes	0.0398
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	5.44	J	Yes	0.0346		Yes	0.00342	U	No	1.14		Yes	0.00619
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.322	J	Yes	0.0115	UJ	No	0.0109	UJ	No	0.0682	J	Yes	0.00757
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	1.66		Yes	0.00632		Yes	0.00471	EMPC-J	Yes	0.379		Yes	0.00183
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.873	J	Yes	0.00497		Yes	0.00307	EMPC-J	Yes	0.235		Yes	0.00125
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.711	J	Yes	0.00283		Yes	0.00242		Yes	0.184		Yes	0.000765
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	1.09	J	Yes	0.00396		Yes	0.00533		Yes	0.245		Yes	0.00251
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.845		Yes	0.00291		Yes	0.00224		Yes	0.202		Yes	0.00163
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	6.14	J	Yes	0.0408	EMPC-J	Yes	0.0238	J	Yes	1.51	J	Yes	0.0127
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	8.86	J	Yes	0.0366	J	Yes	0.0396	J	Yes	2.38	J	Yes	0.0144
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.32		Yes	0.00118		Yes	0.000318	U	No	0.0777		Yes	0.00061
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.473	J	Yes	0.00458	UJ	No	0.00425	UJ	No	0.132	J	Yes	0.00204
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.842		Yes	0.00348		Yes	0.0025		Yes	0.217		Yes	0.00151
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.233		Yes	0.00098		Yes	0.000652	J	Yes	0.0616		Yes	0.000318
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	6.86	J	Yes	0.0246	J	Yes	0.0216	J	Yes	1.67	J	Yes	0.0272
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.782		Yes	0.00243		Yes	0.00245		Yes	0.191		Yes	0.00126
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.17		Yes	0.000639	J	Yes	0.000532	EMPC-J	Yes	0.0439		Yes	0.00037
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.746		Yes	0.00303		Yes	0.000991	U	No	0.214		Yes	0.000455
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	2.09		Yes	0.00708		Yes	0.00636		Yes	0.536		Yes	0.00275
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.397		Yes	0.00112		Yes	0.000263	U	No	0.109		Yes	0.000364
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	1.38		Yes	0.0191		Yes	0.00574		Yes	0.398		Yes	0.000966
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.265		Yes	0.00107		Yes	0.000678	J	Yes	0.0776		Yes	0.000332

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	CB-184 µg/kg		PCB-185 µg/kg		
								Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	U	No		C183	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	U	No		C183	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	U	No		C183	
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	UJ	No		C183	
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	U	No		C183	
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	UJ	No		C183	
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes		Yes	0.821	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	EMPC-J	Yes	0.153		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	EMPC-J	Yes	0.205		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes		Yes	0.00358	U	No
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	EMPC-J	Yes	0.257		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes		Yes	0.0797		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes		Yes	0.0571		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes		Yes	0.0761		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes		Yes	0.00141	U	No
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes		Yes	0.159	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	EMPC-J	Yes	0.158		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	EMPC-J	Yes	0.177		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	U	No	0.0354		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	J	Yes	0.0131	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	EMPC-J	Yes	0.104		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	U	No	0.0339		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	UJ	No	0.0935	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	UJ	No	0.132	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes		Yes	0.132		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes		Yes	0.326		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	UJ	No	0.0258	EMPC-J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes		Yes	0.102		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes		Yes	0.000401	U	No
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	EMPC-J	Yes	0.0295		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No		Yes	0.0788		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No		Yes	0.0497		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	J	Yes	0.295	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	J	Yes	0.382	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	J	Yes	0.0188		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	UJ	No	0.00478	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No		Yes	0.0377		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	J	Yes	0.00947		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	J	Yes	0.3	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No		Yes	0.0384		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	J	Yes	0.0107		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	U	No	0.0479		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		Yes	0.0991		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	J	Yes	0.0132		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No		Yes	0.059		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	EMPC-J	Yes	0.00864		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-186 µg/kg			PCB-187 µg/kg			PCB-188 µg/kg			PCB-189 µg/kg			P
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	0.0396	U	No	7.96		Yes	0.0331	U	No	0.164	J	Yes	1.05
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	0.00668	U	No	1.3		Yes	0.00584	U	No	0.041	J	Yes	0.181
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	0.00997	U	No	1.26		Yes	0.00871	U	No	0.0266	J	Yes	0.204
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	0.327	UJ	No	32.9	J	Yes	0.262	UJ	No	0.397	UJ	No	3.3
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	0.0297	U	No	1.16		Yes	0.0265	U	No	0.0265	U	No	0.122
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	0.0436	UJ	No	8.08	J	Yes	0.0387	UJ	No	0.095	J	Yes	0.716
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	0.00131	U	No	8.35	J	Yes	0.0229		Yes	0.249		Yes	1.2
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.00084	U	No	1.5		Yes	0.00744		Yes	0.0412		Yes	0.205
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	0.000811	U	No	2.26		Yes	0.00753		Yes	0.0549		Yes	0.296
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	0.000757	U	No	6.31	J	Yes	0.0353		Yes	0.149		Yes	0.798
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	0.00148	U	No	3.15		Yes	0.0142		Yes	0.065		Yes	0.324
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.000398	U	No	1.27		Yes	0.00556		Yes	0.0395		Yes	0.191
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.00076	U	No	1.01		Yes	0.00279	EMPC-J	Yes	0.024		Yes	0.134
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.0000746	U	No	0.931		Yes	0.00303		Yes	0.0235		Yes	0.114
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.000301	U	No	1.21		Yes	0.00497	EMPC-J	Yes	0.0333		Yes	0.162
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.000213	U	No	2.05		Yes	0.00678		Yes	0.0585		Yes	0.276
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.0000956	U	No	1.51		Yes	0.00397		Yes	0.0334		Yes	0.183
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.000658	U	No	1.79		Yes	0.00676		Yes	0.0989		Yes	0.38
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.000598	U	No	0.577		Yes	0.000595	U	No	0.0152		Yes	0.0829
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.00978	EMPC-J	Yes	11.5	J	Yes	0.0677	J	Yes	0.169	J	Yes	0.711
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.00114	U	No	1.39		Yes	0.00584		Yes	0.0505		Yes	0.216
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.00089	U	No	0.382		Yes	0.000886	U	No	0.00945	EMPC-J	Yes	0.054
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.000793	UJ	No	1.23	J	Yes	0.00343	EMPC-J	Yes	0.0257	J	Yes	0.148
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	0.00316	UJ	No	1.48	J	Yes	0.00315	UJ	No	0.0362	J	Yes	0.165
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.000762	U	No	2.85		Yes	0.0829		Yes	0.0837		Yes	0.151
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.00114	U	No	2.71		Yes	0.0288	EMPC-J	Yes	0.128		Yes	0.481
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.00722	UJ	No	0.192	J	Yes	0.00695	UJ	No	0.0165	UJ	No	0.0241
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.000387	U	No	1.03		Yes	0.0045		Yes	0.0249		Yes	0.133
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.0000726	U	No	0.523		Yes	0.012		Yes	0.0135		Yes	0.063
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.0000848	U	No	0.451		Yes	0.00104		Yes	0.0109		Yes	0.0525
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.000122	U	No	0.729		Yes	0.00218		Yes	0.0159		Yes	0.077
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.0000561	U	No	0.506		Yes	0.00141		Yes	0.0123		Yes	0.0649
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	0.00119	UJ	No	3.35	J	Yes	0.00577	EMPC-J	Yes	0.141	J	Yes	0.572
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	0.00148	UJ	No	6.36	J	Yes	0.0152	J	Yes	0.128	J	Yes	0.599
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.000113	U	No	0.204		Yes	0.000408	J	Yes	0.00479		Yes	0.024
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.00195	UJ	No	0.284	J	Yes	0.00194	UJ	No	0.0125	J	Yes	0.05
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.0000821	U	No	0.54		Yes	0.00103		Yes	0.013		Yes	0.0661
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.0000394	U	No	0.151		Yes	0.000295	J	Yes	0.00345		Yes	0.0188
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	0.00141	UJ	No	4.32	J	Yes	0.0114	J	Yes	0.117	J	Yes	0.596
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.000113	U	No	0.503		Yes	0.00091		Yes	0.0115		Yes	0.0594
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.0000597	U	No	0.115		Yes	0.000179	J	Yes	0.00256		Yes	0.0133
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.000431	U	No	0.622		Yes	0.000426	U	No	0.0101		Yes	0.0573
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.000298	U	No	1.23		Yes	0.00306		Yes	0.031		Yes	0.16
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.0000967	U	No	0.246		Yes	0.000353	J	Yes	0.00489		Yes	0.0278
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.000522	J	Yes	0.654		Yes	0.000873		Yes	0.0385		Yes	0.14
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.0000932	U	No	0.166		Yes	0.0000948	U	No	0.00392		Yes	0.02

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-190 µg/kg		PCB-191 µg/kg			PCB-192 µg/kg			PCB-193 µg/kg		
								Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes		Yes	0.209	J	Yes	0.0421	U	No		C180	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes		Yes	0.0377	J	Yes	0.00709	U	No		C180	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes		Yes	0.0322	J	Yes	0.0106	U	No		C180	
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	J	Yes	0.576	J	Yes	0.347	UJ	No		C180	
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	J	Yes	0.0282	U	No	0.0315	U	No		C180	
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	J	Yes	0.0939	J	Yes	0.0462	UJ	No		C180	
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes		Yes	0.253	J	Yes	0.00495	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes		Yes	0.0435		Yes	0.00203	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes		Yes	0.0639		Yes	0.00184	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes		Yes	0.168		Yes	0.00339	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes		Yes	0.0716		Yes	0.00337	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes		Yes	0.0405		Yes	0.00108	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes		Yes	0.0273		Yes	0.00159	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes		Yes	0.0237		Yes	0.000373	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes		Yes	0.0335		Yes	0.00111	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes		Yes	0.0559		Yes	0.00118	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes		Yes	0.0382		Yes	0.000575	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes		Yes	0.0782		Yes	0.00177	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes		Yes	0.0169		Yes	0.00115	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	J	Yes	0.163	J	Yes	0.0101	UJ	No		C180	
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes		Yes	0.041		Yes	0.00256	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes		Yes	0.0103		Yes	0.00161	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	J	Yes	0.0295	J	Yes	0.00156	UJ	No		C180	
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	J	Yes	0.0359	J	Yes	0.00936	UJ	No		C180	
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes		Yes	0.0476		Yes	0.00195	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes		Yes	0.0998		Yes	0.00303	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	EMPC-J	Yes	0.00924	UJ	No	0.00965	UJ	No		C180	
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes		Yes	0.0269		Yes	0.000823	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes		Yes	0.0136		Yes	0.000356	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes		Yes	0.0116		Yes	0.000292	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No		Yes	0.0167		Yes	0.00062	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No		Yes	0.0133		Yes	0.000218	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	J	Yes	0.112	J	Yes	0.00486	UJ	No		C180	
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	J	Yes	0.124	J	Yes	0.00445	UJ	No		C180	
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No		Yes	0.00512		Yes	0.000282	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	J	Yes	0.00381	UJ	No	0.00398	UJ	No		C180	
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No		Yes	0.0135		Yes	0.000323	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No		Yes	0.00372		Yes	0.000101	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	J	Yes	0.111	J	Yes	0.00457	UJ	No		C180	
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No		Yes	0.0122		Yes	0.000311	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No		Yes	0.00279		Yes	0.000164	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No		Yes	0.0122		Yes	0.000872	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		Yes	0.0335		Yes	0.000852	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No		Yes	0.00563		Yes	0.000243	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No		Yes	0.031		Yes	0.00034	U	No		C180	
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No		Yes	0.00422		Yes	0.000203	U	No		C180	

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-194 µg/kg			PCB-195 µg/kg			PCB-196 µg/kg			PCB-197 µg/kg			PCB-198 µg/kg	
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	3.06		Yes	1.22	J	Yes	1.46		Yes	0.0821	J	Yes	3.91	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	0.941		Yes	0.37		Yes	0.404		Yes	0.0245	J	Yes	0.994	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	0.728		Yes	0.26		Yes	0.36		Yes	0.0203	J	Yes	0.935	
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	16.5	J	Yes	6.04	J	Yes	6.25	J	Yes	0.396	UJ	No	16.6	J
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	0.417		Yes	0.149	J	Yes	0.213	J	Yes	0.0317	U	No	0.685	
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	4.43	J	Yes	1.06	J	Yes	3.26	J	Yes	0.227	J	Yes	16.7	J
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	4.13	J	Yes	1.52	J	Yes	1.94	J	Yes	0.094	J	Yes	4.94	J
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.988		Yes	0.278		Yes	0.411		Yes	0.0264		Yes	1.41	
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	1.09		Yes	0.396		Yes	0.59		Yes	0.0355		Yes	1.89	
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	2.91		Yes	1.12		Yes	1.6		Yes	0.136		Yes	4.15	
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	1.76		Yes	0.558		Yes	0.868		Yes	0.0657		Yes	3.26	
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.737		Yes	0.272		Yes	0.415		Yes	0.000477	U	No	1.08	
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.459		Yes	0.161		Yes	0.249		Yes	0.0158		Yes	0.821	
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.471		Yes	0.181		Yes	0.197		Yes	0.000162	U	No	0.627	
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.712		Yes	0.266		Yes	0.29		Yes	0.0173		Yes	0.799	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	1.05		Yes	0.412		Yes	0.458		Yes	0.0315		Yes	1.28	
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.803		Yes	0.34		Yes	0.357		Yes	0.0198		Yes	0.917	
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.674		Yes	0.259		Yes	0.343		Yes	0.0169		Yes	0.897	
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.262		Yes	0.103		Yes	0.134		Yes	0.00744		Yes	0.348	
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	8.39	J	Yes	2.26	J	Yes	4.42	J	Yes	0.576	J	Yes	22.5	J
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.718		Yes	0.272		Yes	0.353		Yes	0.0176		Yes	0.966	
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.141		Yes	0.055		Yes	0.0757		Yes	0.0043	EMPC-J	Yes	0.233	
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.657	J	Yes	0.234	J	Yes	0.334	J	Yes	0.0163	EMPC-J	Yes	0.95	J
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	0.623	J	Yes	0.235	J	Yes	0.247	J	Yes	0.0193	EMPC-J	Yes	0.72	J
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	1.05		Yes	0.244		Yes	1.11		Yes	0.121		Yes	3.23	
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	1.87		Yes	0.739		Yes	0.858		Yes	0.0454	EMPC-J	Yes	1.85	
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.104	J	Yes	0.04	J	Yes	0.0407	EMPC-J	Yes	0.0146	J	Yes	0.122	EMPC-J
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.42		Yes	0.158		Yes	0.233		Yes	0.0136		Yes	0.683	
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.301		Yes	0.126		Yes	0.131		Yes	0.00907		Yes	0.341	
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.178		Yes	0.0718		Yes	0.0799		Yes	0.00486		Yes	0.258	
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.367		Yes	0.137		Yes	0.156		Yes	0.00912		Yes	0.512	
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.213		Yes	0.0828		Yes	0.0972		Yes	0.00657		Yes	0.286	
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	1.57	J	Yes	0.577	J	Yes	0.775	J	Yes	0.00197	UJ	No	2.13	J
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	3.56	J	Yes	1.07	J	Yes	2.05	J	Yes	0.122	J	Yes	7.46	J
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.0762		Yes	0.0286		Yes	0.037		Yes	0.00267		Yes	0.123	
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.152	J	Yes	0.0591	J	Yes	0.0672	J	Yes	0.00793	J	Yes	0.194	J
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.225		Yes	0.0906		Yes	0.0892		Yes	0.00622		Yes	0.248	
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.0508		Yes	0.0212		Yes	0.0229		Yes	0.00179		Yes	0.0698	
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	2	J	Yes	0.747	J	Yes	0.909	J	Yes	0.0548	J	Yes	2.61	J
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.223		Yes	0.0975		Yes	0.0942		Yes	0.00664		Yes	0.276	
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.0429		Yes	0.0174		Yes	0.0178		Yes	0.000113	U	No	0.0567	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.179		Yes	0.0618		Yes	0.106		Yes	0.00637		Yes	0.397	
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.514		Yes	0.205		Yes	0.241		Yes	0.0166		Yes	0.645	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.106		Yes	0.0383		Yes	0.0556		Yes	0.00361		Yes	0.157	
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.194		Yes	0.0777		Yes	0.0945		Yes	0.00723		Yes	0.234	
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.0555		Yes	0.0233		Yes	0.0273		Yes	0.00165		Yes	0.0822	

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background		PCB-199 µg/kg			PCB-200 µg/kg			PCB-201 µg/kg		
								Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	Yes		C198		0.323	J	Yes	0.451		Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	Yes		C198		0.0886		Yes	0.0997		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	Yes		C198		0.0702		Yes	0.077	J	Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	Yes		C198		1.6	J	Yes	1.69	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	Yes		C198		0.0312	U	No	0.0301	U	No
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	Yes		C198		0.583	J	Yes	1.39	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	Yes		C198		0.545	J	Yes	0.539	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	Yes		C198		0.0892		Yes	0.121		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	Yes		C198		0.134		Yes	0.179		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	Yes		C198		0.356		Yes	0.447		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	Yes		C198		0.208		Yes	0.318		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	Yes		C198		0.11		Yes	0.1		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	Yes		C198		0.059		Yes	0.0754		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes		C198		0.0664		Yes	0.0645		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes		C198		0.0754		Yes	0.0849		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes		C198		0.119		Yes	0.135		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes		C198		0.101		Yes	0.1		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	Yes		C198		0.0873		Yes	0.0924		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	Yes		C198		0.0381		Yes	0.0359		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	Yes		C198		1.04	J	Yes	2.58	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	Yes		C198		0.1		Yes	0.0951		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	Yes		C198		0.0221		Yes	0.0251		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	Yes		C198		0.102	J	Yes	0.106	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	Yes		C198		0.0812	J	Yes	0.0902	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	Yes		C198		0.203		Yes	0.626		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	Yes		C198		0.204		Yes	0.188		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes		C198		0.00978	UJ	No	0.0151	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes		C198		0.0647		Yes	0.0651		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes		C198		0.0361		Yes	0.0372		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes		C198		0.025		Yes	0.0264		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes		C198		0.0496		Yes	0.0557		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes		C198		0.0259		Yes	0.0293		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes		C198		0.25	J	Yes	0.207	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes		C198		0.618	J	Yes	0.796	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes		C198		0.0102		Yes	0.0125		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes		C198		0.0222	J	Yes	0.0222	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes		C198		0.0259		Yes	0.0282		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes		C198		0.00709		Yes	0.00796		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes		C198		0.282	J	Yes	0.279	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes		C198		0.0269		Yes	0.0297		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes		C198		0.00701		Yes	0.00646		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes		C198		0.0349		Yes	0.0457		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes		C198		0.068		Yes	0.0696		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes		C198		0.0165		Yes	0.0172		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes		C198		0.0292		Yes	0.0294		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes		C198		0.00908		Yes	0.00922		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB-202 µg/kg			PCB-203 µg/kg			PCB-204 µg/kg			PCB-205 µg/kg			PCB-206 µg/kg	
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	1.11	J	Yes	2.2		Yes	0.0485	U	No	0.158	J	Yes	1.9	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	0.259		Yes	0.61		Yes	0.00779	U	No	0.0431	J	Yes	0.697	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	0.216		Yes	0.535		Yes	0.0113	U	No	0.0314	J	Yes	0.599	
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	4.19	J	Yes	9.49	J	Yes	0.412	UJ	No	0.591	UJ	No	12.1	J
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	0.208	J	Yes	0.292	J	Yes	0.033	U	No	0.0322	U	No	0.405	
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	9	J	Yes	8.33	J	Yes	0.0488	UJ	No	0.247	J	Yes	34.4	J
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	0.984	J	Yes	2.79	J	Yes	0.00177	U	No	0.172	J	Yes	2.15	
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.35		Yes	0.829		Yes	0.00124	U	No	0.0429		Yes	1.61	
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	0.516		Yes	1.06		Yes	0.00102	U	No	0.0489		Yes	1.5	
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	0.929		Yes	2.35		Yes	0.00101	U	No	0.134		Yes	1.92	
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	1.11		Yes	1.74		Yes	0.00505		Yes	0.08		Yes	4.46	J
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.239		Yes	0.641		Yes	0.000483	U	No	0.0376		Yes	0.566	
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.217		Yes	0.474		Yes	0.00142	U	No	0.0214		Yes	0.764	
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.201		Yes	0.343		Yes	0.000692	J	Yes	0.0215		Yes	0.621	
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.238		Yes	0.474		Yes	0.000538	U	No	0.0368		Yes	0.623	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.332		Yes	0.727		Yes	0.0013		Yes	0.0491		Yes	0.985	
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.228		Yes	0.512		Yes	0.000528	J	Yes	0.0382		Yes	0.57	
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.21		Yes	0.526		Yes	0.000993	U	No	0.0329		Yes	0.569	
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.083		Yes	0.203		Yes	0.000917	U	No	0.0136		Yes	0.232	
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	11.9	J	Yes	11.6	J	Yes	0.0967	J	Yes	0.438	J	Yes	45.1	J
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.242		Yes	0.567		Yes	0.0025	U	No	0.0369		Yes	0.673	
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.0761		Yes	0.135		Yes	0.00144	U	No	0.00869		Yes	0.171	
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.265	J	Yes	0.569	J	Yes	0.00121	UJ	No	0.0317	J	Yes	0.654	J
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	0.221	J	Yes	0.442	J	Yes	0.0077	UJ	No	0.012	UJ	No	0.773	J
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	1.16	J	Yes	1.22		Yes	0.0194		Yes	0.0334		Yes	1.1	
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.349	J	Yes	1.2		Yes	0.00184	U	No	0.106		Yes	0.915	
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.0337	J	Yes	0.0743	J	Yes	0.00939	UJ	No	0.0136	UJ	No	0.126	J
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.181		Yes	0.382		Yes	0.000438	U	No	0.019	EMPC-J	Yes	0.409	
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.0993		Yes	0.195		Yes	0.000407	J	Yes	0.0148		Yes	0.232	
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.0836		Yes	0.136		Yes	0.000121	U	No	0.00864		Yes	0.2	
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.161		Yes	0.271		Yes	0.000243	U	No	0.0172		Yes	0.542	
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.0729		Yes	0.158		Yes	0.000253	J	Yes	0.0101		Yes	0.192	
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	0.496	J	Yes	1.25	J	Yes	0.00217	UJ	No	0.0812	J	Yes	1.38	J
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	2.81	J	Yes	4.08	J	Yes	0.0147	J	Yes	0.16	J	Yes	9.18	J
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.0402		Yes	0.0664		Yes	0.000227	U	No	0.0041		Yes	0.106	
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.0516	J	Yes	0.107	J	Yes	0.00362	UJ	No	0.00788	UJ	No	0.181	J
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.065		Yes	0.14		Yes	0.000123	U	No	0.0105		Yes	0.163	
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.0203		Yes	0.0382		Yes	0.0000605	U	No	0.00254		Yes	0.0503	
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	0.654	J	Yes	1.51	J	Yes	0.00234	UJ	No	0.0963	J	Yes	1.79	J
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.0873		Yes	0.148		Yes	0.000258	U	No	0.011		Yes	0.245	
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.0178		Yes	0.0306		Yes	0.000121	U	No	0.00227		Yes	0.0482	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.197		Yes	0.213		Yes	0.000582	U	No	0.00838		Yes	0.279	
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.16		Yes	0.376		Yes	0.00034	U	No	0.0249		Yes	0.474	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.0414		Yes	0.093		Yes	0.000112	U	No	0.00467		Yes	0.131	
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.0557		Yes	0.157		Yes	0.000111	U	No	0.00915		Yes	0.167	
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.0241		Yes	0.046		Yes	0.000144	U	No	0.00278	EMPC-J	Yes	0.0584	

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background		PCB-207			PCB-208			Decachlorobiphenyl			Total PCB Congeners		
									µg/kg			µg/kg			µg/kg			µg/kg		
								Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	Yes	0.129	J	Yes	0.815		Yes	1.35		Yes	775	J	Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	Yes	0.0551	J	Yes	0.238		Yes	0.453		Yes	96.6	J	Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	Yes	0.0337	J	Yes	0.198		Yes	0.515		Yes	83.3	J	Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	Yes	1.14	J	Yes	3.07	J	Yes	9.11	J	Yes	5110	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	Yes	0.0348	U	No	0.224	J	Yes	0.426		Yes	132	J	Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	Yes	2.62	J	Yes	16.9	J	Yes	53.5	J	Yes	383	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	Yes	0.251	J	Yes	0.857		Yes	2.31		Yes	740	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	Yes	0.135		Yes	0.601		Yes	1.32		Yes	113	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	Yes	0.14		Yes	0.804		Yes	1.88		Yes	183	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	Yes	0.204		Yes	0.844		Yes	1.89		Yes	804	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	Yes	0.395		Yes	2.18		Yes	7.7	J	Yes	176	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	Yes	0.0579		Yes	0.256		Yes	0.477		Yes	84.9	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	Yes	0.0777		Yes	0.36		Yes	0.737		Yes	60.2	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	0.0505		Yes	0.29		Yes	0.615		Yes	56.7	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	0.059		Yes	0.279		Yes	0.674		Yes	89.9	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	0.0862		Yes	0.404		Yes	0.921		Yes	169	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	0.0474		Yes	0.223		Yes	0.372		Yes	75.4	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	Yes	0.0547		Yes	0.247		Yes	0.47		Yes	167	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	Yes	0.0204		Yes	0.1		Yes	0.198		Yes	29.7	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	Yes	7.29	J	Yes	37.4	J	Yes	139	J	Yes	469	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	Yes	0.0635		Yes	0.278		Yes	0.857		Yes	101	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	Yes	0.016		Yes	0.0907		Yes	0.178		Yes	49.5	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	Yes	0.0736	J	Yes	0.283	J	Yes	0.502	J	Yes	85.9	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	Yes	0.0749	J	Yes	0.328	J	Yes	0.775	J	Yes	106	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	Yes	0.194		Yes	0.58		Yes	0.365		Yes	84.3	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	Yes	0.0896		Yes	0.281		Yes	0.409		Yes	146	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	0.0203	J	Yes	0.0604	J	Yes	0.424	J	Yes	13.4	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	0.0375		Yes	0.198		Yes	0.431		Yes	92.6	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	0.0202		Yes	0.0945		Yes	0.184		Yes	33.9	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	0.0144		Yes	0.09		Yes	0.146		Yes	42.7	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	0.0627		Yes	0.294		Yes	0.988		Yes	32.6	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	0.0191		Yes	0.0817		Yes	0.171		Yes	29.4	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	0.131	J	Yes	0.573	J	Yes	1.41	J	Yes	269	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	1.11	J	Yes	5.18	J	Yes	24.4	J	Yes	332	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	0.0111		Yes	0.0526		Yes	0.117		Yes	11.3	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	0.0198	J	Yes	0.0668	J	Yes	0.642	J	Yes	20	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	0.016		Yes	0.0654		Yes	0.122		Yes	32.1	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	0.00452		Yes	0.0223		Yes	0.0424		Yes	9.77	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	0.179	J	Yes	0.756	J	Yes	1.5	J	Yes	237	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	0.0198		Yes	0.112		Yes	0.254		Yes	33	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	0.0044		Yes	0.0213		Yes	0.0448		Yes	8.1	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	0.0265		Yes	0.182		Yes	0.196		Yes	38.5	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	0.0449		Yes	0.207		Yes	0.738		Yes	85.1	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	0.0132		Yes	0.0578		Yes	0.231		Yes	17.7	J	Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	0.0184		Yes	0.0557		Yes	0.0645		Yes	112	J	Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	0.00513		Yes	0.0288		Yes	0.0524		Yes	16	J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCB Congeners (ND=DL) µg/kg			Total PCB Congeners (ND=DL) µg/kg			PCB TEQ-Bird ng/kg			PCB TEQ-Bird (ND=0.5DL) ng/kg			PCB TEQ-Bird (ND=DL) ng/kg			PCB TEQ-Bird ng/kg	
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	776	J	Yes	777	J	Yes	86.2	J	Yes	87.7	J	Yes	89.2	J	Yes	86.3	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	96.7	J	Yes	96.7	J	Yes	21	J	Yes	21.3	J	Yes	21.5	J	Yes	21	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	83.5	J	Yes	83.7	J	Yes	14.8	J	Yes	15.3	J	Yes	15.8	J	Yes	14.8	
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	5110	J	Yes	5120	J	Yes	874	J	Yes	900	J	Yes	927	J	Yes	875	J
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	133	J	Yes	134	J	Yes	15.6	J	Yes	17.6	J	Yes	19.5	J	Yes	15.6	J
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	384	J	Yes	385	J	Yes	72.7	J	Yes	74.1	J	Yes	75.5	J	Yes	72.8	J
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	740	J	Yes	740	J	Yes	196	J	Yes	196	J	Yes	196	J	Yes	196	J
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	113	J	Yes	113	J	Yes	26.1	J	Yes	26.1	J	Yes	26.1	J	Yes	26.1	J
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	183	J	Yes	183	J	Yes	42	J	Yes	42	J	Yes	42	J	Yes	42	
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	804	J	Yes	804	J	Yes	564	J	Yes	564	J	Yes	564	J	Yes	564	J
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	176	J	Yes	176	J	Yes	120	J	Yes	120	J	Yes	120	J	Yes	120	
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	84.9	J	Yes	84.9	J	Yes	28.7		Yes	28.7		Yes	28.7		Yes	28.7	
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	60.2	J	Yes	60.3	J	Yes	14.9	J	Yes	14.9	J	Yes	14.9	J	Yes	14.9	
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	56.7	J	Yes	56.7	J	Yes	16.6		Yes	16.6		Yes	16.6		Yes	16.6	
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	89.9	J	Yes	89.9	J	Yes	21.3		Yes	21.3		Yes	21.3		Yes	21.3	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	169	J	Yes	169	J	Yes	48.2	J	Yes	48.2	J	Yes	48.2	J	Yes	48.2	
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	75.4	J	Yes	75.4	J	Yes	15.9		Yes	15.9		Yes	15.9		Yes	15.9	
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	167	J	Yes	167	J	Yes	17.9	J	Yes	17.9	J	Yes	17.9	J	Yes	17.9	
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	29.7	J	Yes	29.7	J	Yes	6.47	J	Yes	6.47	J	Yes	6.47	J	Yes	6.47	
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	469	J	Yes	469	J	Yes	105	J	Yes	105	J	Yes	106	J	Yes	105	J
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	101	J	Yes	101	J	Yes	40.8		Yes	40.8		Yes	40.8		Yes	40.8	
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	49.5	J	Yes	49.5	J	Yes	11.7	J	Yes	11.7	J	Yes	11.7	J	Yes	11.7	
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	85.9	J	Yes	86	J	Yes	19.7	J	Yes	19.7	J	Yes	19.7	J	Yes	19.7	J
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	106	J	Yes	106	J	Yes	26.9	J	Yes	26.9	J	Yes	26.9	J	Yes	26.9	J
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	84.3	J	Yes	84.3	J	Yes	14.9		Yes	14.9		Yes	14.9		Yes	14.9	
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	146	J	Yes	146	J	Yes	18.9	J	Yes	18.9	J	Yes	19	J	Yes	18.9	
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	13.8	J	Yes	14.2	J	Yes	3.38	J	Yes	5.21	J	Yes	7.03	J	Yes	3.39	J
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	92.6	J	Yes	92.6	J	Yes	22	J	Yes	22	J	Yes	22	J	Yes	22	J
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	33.9	J	Yes	33.9	J	Yes	8.56		Yes	8.56		Yes	8.56		Yes	8.56	
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	42.7	J	Yes	42.7	J	Yes	9.15		Yes	9.15		Yes	9.15		Yes	9.15	
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	32.6	J	Yes	32.7	J	Yes	13.6		Yes	13.6		Yes	13.6		Yes	13.6	
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	29.5	J	Yes	29.5	J	Yes	8.21		Yes	8.21		Yes	8.21		Yes	8.21	
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	269	J	Yes	269	J	Yes	59.7	J	Yes	59.7	J	Yes	59.7	J	Yes	59.7	J
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	332	J	Yes	332	J	Yes	390	J	Yes	390	J	Yes	390	J	Yes	390	J
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	11.3	J	Yes	11.3	J	Yes	3.7		Yes	3.7		Yes	3.7		Yes	3.7	
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	20.1	J	Yes	20.2	J	Yes	4.91	J	Yes	5.53	J	Yes	6.16	J	Yes	4.92	J
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	32.1	J	Yes	32.1	J	Yes	7.16		Yes	7.16		Yes	7.16		Yes	7.16	
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	9.77	J	Yes	9.77	J	Yes	2.34		Yes	2.34		Yes	2.34		Yes	2.34	
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	237	J	Yes	237	J	Yes	65.5	J	Yes	65.5	J	Yes	65.5	J	Yes	65.5	J
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	33	J	Yes	33	J	Yes	8.1		Yes	8.1		Yes	8.1		Yes	8.1	
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	8.1	J	Yes	8.1	J	Yes	1.77		Yes	1.77		Yes	1.77		Yes	1.77	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	38.5	J	Yes	38.5	J	Yes	6.87		Yes	6.87		Yes	6.87		Yes	6.87	
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	85.2	J	Yes	85.2	J	Yes	46		Yes	46		Yes	46		Yes	46	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	17.7	J	Yes	17.7	J	Yes	3.52		Yes	3.52		Yes	3.52		Yes	3.52	
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	112	J	Yes	112	J	Yes	7.71	J	Yes	7.71	J	Yes	7.71	J	Yes	7.71	
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	16	J	Yes	16	J	Yes	3.44		Yes	3.44		Yes	3.44		Yes	3.44	

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	d (KM)	PCB TEQ-Fish		PCB TEQ-Fish (ND=0.5DL			PCB TEQ-Fish (ND=DL)			PCB TEQ-Fish (KM)			PCB TEQ-Ma	
									ng/kg			ng/kg			ng/kg			ng/kg			ng/kg	
								Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	Yes	0.504	J	Yes	0.511	J	Yes	0.519	J	Yes	0.507	J	Yes	9.26	J
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	Yes	0.121	J	Yes	0.122	J	Yes	0.124	J	Yes	0.122	J	Yes	1.38	J
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	Yes	0.11	J	Yes	0.113	J	Yes	0.116	J	Yes	0.112	J	Yes	1.48	J
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	Yes	2.28	J	Yes	3.06	J	Yes	3.84	J	Yes	2.38	J	Yes	4.99	J
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	Yes	0.051	J	Yes	0.108	J	Yes	0.164	J	Yes	0.142	J	Yes	0.152	J
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	Yes	0.597	J	Yes	0.604	J	Yes	0.611	J	Yes	0.6	J	Yes	17.5	J
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	Yes	1.44	J	Yes	1.44	J	Yes	1.44	J	Yes	1.44	J	Yes	18.5	J
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	Yes	0.128	J	Yes	0.128	J	Yes	0.128	J	Yes	0.128		Yes	1.2	J
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	Yes	0.185	J	Yes	0.186	J	Yes	0.186	J	Yes	0.186		Yes	1.53	J
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	Yes	1.76	J	Yes	1.76	J	Yes	1.76	J	Yes	1.76	J	Yes	12	J
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	Yes	0.392	J	Yes	0.392	J	Yes	0.393	J	Yes	0.393		Yes	2.63	J
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	Yes	0.141		Yes	0.141		Yes	0.141		Yes	0.141		Yes	1.45	
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	Yes	0.0837	J	Yes	0.0837	J	Yes	0.0838	J	Yes	0.0838		Yes	0.891	J
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	0.0824		Yes	0.0824		Yes	0.0824		Yes	0.0824		Yes	0.824	
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	0.116		Yes	0.116		Yes	0.116		Yes	0.116		Yes	1.22	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	0.224	J	Yes	0.224	J	Yes	0.224	J	Yes	0.224		Yes	2.01	J
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	0.0844		Yes	0.0844		Yes	0.0844		Yes	0.0844		Yes	0.859	
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	Yes	0.143	J	Yes	0.143	J	Yes	0.144	J	Yes	0.144		Yes	1.36	J
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	Yes	0.0462	J	Yes	0.0462	J	Yes	0.0463	J	Yes	0.0463		Yes	0.571	J
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	Yes	0.63	J	Yes	0.635	J	Yes	0.639	J	Yes	0.632	J	Yes	8.23	J
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	Yes	0.288		Yes	0.289		Yes	0.289		Yes	0.289		Yes	3.99	
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	Yes	0.061	J	Yes	0.0611	J	Yes	0.0611	J	Yes	0.0611		Yes	0.64	J
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	Yes	0.108	J	Yes	0.108	J	Yes	0.108	J	Yes	0.108	J	Yes	1.14	J
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	Yes	0.153	J	Yes	0.153	J	Yes	0.154	J	Yes	0.153	J	Yes	1.64	J
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	Yes	0.141		Yes	0.141		Yes	0.141		Yes	0.141		Yes	1.96	
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	Yes	0.149	J	Yes	0.149	J	Yes	0.149	J	Yes	0.149		Yes	1.68	J
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	0.00993	J	Yes	0.0681	J	Yes	0.126	J	Yes	0.109	J	Yes	0.0261	J
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	0.117	J	Yes	0.117	J	Yes	0.117	J	Yes	0.117		Yes	1.17	J
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	0.0437		Yes	0.0437		Yes	0.0438		Yes	0.0438		Yes	0.442	
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	0.0458		Yes	0.0458		Yes	0.0459		Yes	0.0459		Yes	0.436	
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	0.0654		Yes	0.0654		Yes	0.0654		Yes	0.0654		Yes	0.666	
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	0.0477		Yes	0.0477		Yes	0.0478		Yes	0.0478		Yes	0.514	
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	0.418	J	Yes	0.418	J	Yes	0.419	J	Yes	0.419	J	Yes	4.2	J
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	1.4	J	Yes	1.4	J	Yes	1.4	J	Yes	1.4	J	Yes	12	J
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	0.0203		Yes	0.0203		Yes	0.0203		Yes	0.0203		Yes	0.219	
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	0.0156	J	Yes	0.0352	J	Yes	0.0549	J	Yes	0.0524	J	Yes	0.0448	J
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	0.0451		Yes	0.0451		Yes	0.0451		Yes	0.0451		Yes	0.498	
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	0.0139		Yes	0.0139		Yes	0.014		Yes	0.014		Yes	0.147	
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	0.427	J	Yes	0.427	J	Yes	0.427	J	Yes	0.427	J	Yes	4.98	J
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	0.0526		Yes	0.0526		Yes	0.0526		Yes	0.0526		Yes	0.642	
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	0.011		Yes	0.011		Yes	0.011		Yes	0.011		Yes	0.123	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	0.0452		Yes	0.0452		Yes	0.0453		Yes	0.0453		Yes	0.492	
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	0.192		Yes	0.192		Yes	0.192		Yes	0.192		Yes	1.74	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	0.0211		Yes	0.0211		Yes	0.0211		Yes	0.0211		Yes	0.227	
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	0.135	J	Yes	0.135	J	Yes	0.135	J	Yes	0.135		Yes	1.48	J
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	0.0247		Yes	0.0247		Yes	0.0247		Yes	0.0247		Yes	0.294	

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	mma PCB TEQ-Mammal (ND=0			PCB TEQ-Mammal (ND=1			PCB TEQ-Mammal (KM			Monochlorobiphenyl			Dichlorobiphe	
									ng/kg			ng/kg			ng/kg			µg/kg			µg/kg	
								Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	Yes	9.26	J	Yes	9.27	J	Yes	9.26	J	Yes	1.7		Yes	38.8	
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	Yes	1.51	J	Yes	1.64	J	Yes	1.4	J	Yes	0.191		Yes	3.37	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	Yes	1.64	J	Yes	1.8	J	Yes	1.5	J	Yes	0.109		Yes	3.89	
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	Yes	26.3	J	Yes	47.6	J	Yes	31	J	Yes	14		Yes	303	
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	Yes	1.57	J	Yes	2.99	J	Yes	2.03	J	Yes	2.46		Yes	20.9	
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	Yes	17.5	J	Yes	17.5	J	Yes	17.5	J	Yes	0.776		Yes	4.35	
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	Yes	18.6	J	Yes	18.8	J	Yes	18.5	J	Yes	1.78	J	Yes	36.2	J
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	Yes	1.24	J	Yes	1.28	J	Yes	1.22		Yes	0.44		Yes	5.21	J
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	Yes	1.61	J	Yes	1.68	J	Yes	1.57		Yes	0.845		Yes	9.53	J
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	Yes	12.1	J	Yes	12.2	J	Yes	12.1		Yes	2.63		Yes	54.6	J
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	Yes	2.73	J	Yes	2.82	J	Yes	2.67		Yes	0.394		Yes	6.26	J
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	Yes	1.48		Yes	1.51		Yes	1.47		Yes	0.51	J	Yes	6.52	J
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	Yes	0.918	J	Yes	0.946	J	Yes	0.904		Yes	0.114		Yes	1.98	J
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	0.835		Yes	0.846		Yes	0.829		Yes	0.13		Yes	1.93	J
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	1.25		Yes	1.28		Yes	1.24		Yes	0.387		Yes	4.25	J
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	2.04	J	Yes	2.07	J	Yes	2.02		Yes	0.541		Yes	8.24	J
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	0.872		Yes	0.884		Yes	0.865		Yes	0.334		Yes	3.22	J
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	Yes	1.4	J	Yes	1.45	J	Yes	1.38		Yes	0.455		Yes	4.34	J
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	Yes	0.591	J	Yes	0.611	J	Yes	0.578		Yes	0.105		Yes	0.702	EMPC-J
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	Yes	8.44	J	Yes	8.65	J	Yes	8.29	J	Yes	0.481	J	Yes	6.62	J
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	Yes	4.09		Yes	4.18		Yes	4.02		Yes	0.418		Yes	14.5	J
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	Yes	0.675	J	Yes	0.709	J	Yes	0.649		Yes	0.4		Yes	4.21	J
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	Yes	1.18	J	Yes	1.22	J	Yes	1.15	J	Yes	0.406	J	Yes	4.23	J
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	Yes	1.89	J	Yes	2.13	J	Yes	1.67	J	Yes	0.97	J	Yes	4.31	J
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	Yes	2		Yes	2.04		Yes	1.98		Yes	0.277		Yes	2.05	J
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	Yes	1.73	J	Yes	1.79	J	Yes	1.69		Yes	0.271		Yes	3.54	EMPC-J
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	1.47	J	Yes	2.92	J	Yes	2	J	Yes	0.839	J	Yes	0.987	J
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	1.19	J	Yes	1.22	J	Yes	1.18		Yes	0.46		Yes	5.59	J
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	0.449		Yes	0.457		Yes	0.444		Yes	0.115		Yes	1.45	J
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	0.446		Yes	0.456		Yes	0.441		Yes	0.197		Yes	2.61	J
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	0.686		Yes	0.705		Yes	0.675		Yes	0.198		Yes	1.29	J
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	0.522		Yes	0.53		Yes	0.519		Yes	0.0891		Yes	0.805	J
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	4.35	J	Yes	4.5	J	Yes	4.26	J	Yes	0.653	J	Yes	6.04	J
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	12.1	J	Yes	12.3	J	Yes	12	J	Yes	1.55	J	Yes	22.1	J
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	0.225		Yes	0.232		Yes	0.222		Yes	0.0144		Yes	0.262	J
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	0.54	J	Yes	1.04	J	Yes	0.777	J	Yes	0.699	J	Yes	0.969	J
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	0.506		Yes	0.514		Yes	0.503		Yes	0.0374		Yes	0.706	J
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	0.149		Yes	0.152		Yes	0.148		Yes	0.0199		Yes	0.344	J
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	5.11	J	Yes	5.24	J	Yes	5.02	J	Yes	0.46	J	Yes	7.47	J
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	0.652		Yes	0.663		Yes	0.646		Yes	0.406	J	Yes	2.07	J
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	0.127		Yes	0.131		Yes	0.124		Yes	0.0844		Yes	0.611	J
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	0.511		Yes	0.53		Yes	0.5		Yes	0.34		Yes	2.01	J
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	1.77		Yes	1.79		Yes	1.75		Yes	0.433		Yes	4.2	J
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	0.232		Yes	0.237		Yes	0.229		Yes	0.0614		Yes	0.737	J
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	1.49	J	Yes	1.51	J	Yes	1.49		Yes	0.0252		Yes	0.405	J
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	0.3		Yes	0.305		Yes	0.296		Yes	0.129		Yes	0.799	J

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	enyl	Trichlorobiphenyl µg/kg		
								Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	Yes	175		Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	Yes	15		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	Yes	14.6		Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	Yes	1910		Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	Yes	37		Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	Yes	9.19		Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	Yes	104	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	Yes	16.8		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	Yes	31.9	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	Yes	216	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	Yes	18.5	EMPC-J	Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	Yes	15.5		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	Yes	7.8	EMPC-J	Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	7.7		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	13.2		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	30	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	10.1	EMPC-J	Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	Yes	12.5		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	Yes	2.6		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	Yes	8.18	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	Yes	11.7		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	Yes	9.88	EMPC-J	Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	Yes	11.5	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	Yes	21.2	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	Yes	8.55		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	Yes	18.3		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	1.46	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	15.6		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	4.16		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	7.59		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	2.75		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	2.59	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	23.8	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	14.5	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	0.93	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	1.98	EMPC-J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	2.95	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	0.767	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	31.7	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	5.06	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	1.35	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	4.54		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	8.77		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	2.69	EMPC-J	Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	1.54		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	2.61		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Tetrachlorobiphenyl µg/kg			Pentachlorobiphenyl µg/kg			Hexachlorobiphenyl µg/kg			Heptachlorobiphenyl µg/kg			Octachlorobiphenyl µg/kg		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	281		Yes	121		Yes	88.5		Yes	51.2		Yes	14		Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	26.7		Yes	22.2		Yes	15.4		Yes	8.51		Yes	3.83		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	23		Yes	16.5		Yes	12.3		Yes	8.28		Yes	3.23		Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	1600		Yes	574		Yes	424		Yes	192		Yes	62.4		Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	25.8		Yes	21.2		Yes	14.7		Yes	6.76		Yes	1.96		Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	26.2		Yes	79.3		Yes	70.2		Yes	40.3		Yes	45.2		Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	169	J	Yes	208	J	Yes	144	J	Yes	55.5	J	Yes	17.6	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	29.7	J	Yes	24.4	J	Yes	18.4	J	Yes	9.51	EMPC-J	Yes	4.54		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	48.4	J	Yes	38.6	J	Yes	29.2	J	Yes	14.4	EMPC-J	Yes	5.93		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	256	J	Yes	136	J	Yes	80	J	Yes	40.3	J	Yes	14.1		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	37.1	EMPC-J	Yes	40.9	J	Yes	30.6	EMPC-J	Yes	17.9	EMPC-J	Yes	9.96		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	16.8		Yes	16.6		Yes	15.2		Yes	8.76		Yes	3.64		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	14	EMPC-J	Yes	14.1		Yes	11.4	EMPC-J	Yes	6.3	EMPC-J	Yes	2.55		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	15		Yes	12.3		Yes	10.1		Yes	5.69		Yes	2.17		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	26.4	J	Yes	19.9	J	Yes	13.8		Yes	7.41	EMPC-J	Yes	2.99		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	46.1	J	Yes	37	J	Yes	26.5		Yes	13	J	Yes	4.59		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	20		Yes	15.3		Yes	12.6		Yes	9.17	EMPC-J	Yes	3.42		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	42.4	J	Yes	39.2	J	Yes	48.7	EMPC-J	Yes	14.7	EMPC-J	Yes	3.14		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	6.33	EMPC-J	Yes	7.55		Yes	6.89		Yes	3.73		Yes	1.23		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	22.7	J	Yes	39.9	J	Yes	43.8	EMPC-J	Yes	52.5	EMPC-J	Yes	65.8	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	20.3		Yes	21.1		Yes	18.5		Yes	9.18	EMPC-J	Yes	3.37		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	15.1		Yes	10.3		Yes	5.98	EMPC-J	Yes	2.44	EMPC-J	Yes	0.776	EMPC-J	Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	22.3	J	Yes	20.2	J	Yes	15.3	J	Yes	7.26	EMPC-J	Yes	3.27	EMPC-J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	27.4	EMPC-J	Yes	22.1	EMPC-J	Yes	16.2	J	Yes	8.76	J	Yes	2.68	EMPC-J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	14.6		Yes	18		Yes	16.6	EMPC-J	Yes	13	J	Yes	9.03	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	27.2	EMPC-J	Yes	32.6	J	Yes	36		Yes	19.5	EMPC-J	Yes	7.41	EMPC-J	Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	2.58	J	Yes	2.83	EMPC-J	Yes	2.46	EMPC-J	Yes	1.18	EMPC-J	Yes	0.445	EMPC-J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	24.3	J	Yes	22.3	EMPC-J	Yes	14.7		Yes	6.31	EMPC-J	Yes	2.22	EMPC-J	Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	9.04		Yes	7.95		Yes	6.12		Yes	3.23	EMPC-J	Yes	1.29		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	12.9		Yes	9.26		Yes	6.12		Yes	2.71	EMPC-J	Yes	0.873		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	6.3		Yes	7.8	EMPC-J	Yes	6.59		Yes	4.1	J	Yes	1.73		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	6.87		Yes	7.68		Yes	6.77		Yes	3.19		Yes	0.981		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	45.3	J	Yes	83.3	EMPC-J	Yes	75.2	EMPC-J	Yes	23.4	EMPC-J	Yes	7.33	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	43.7	J	Yes	86.2	J	Yes	67.7	EMPC-J	Yes	33.8	J	Yes	22.7	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	2.31		Yes	3.24		Yes	2.67	EMPC-J	Yes	1.21		Yes	0.401		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	4.19	EMPC-J	Yes	4.76	EMPC-J	Yes	3.91	EMPC-J	Yes	1.89	J	Yes	0.683	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	7.66		Yes	9.04		Yes	7.16		Yes	3.29		Yes	0.929		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	2.06		Yes	2.97	EMPC-J	Yes	2.31	EMPC-J	Yes	0.925		Yes	0.243		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	48.8	J	Yes	58.3	J	Yes	50	J	Yes	26.8	J	Yes	9.14	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	7.94		Yes	7.03	EMPC-J	Yes	5.8	EMPC-J	Yes	3.04		Yes	1		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	1.81		Yes	1.82	EMPC-J	Yes	1.43	EMPC-J	Yes	0.676	EMPC-J	Yes	0.199		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	7.79	EMPC-J	Yes	10.8	EMPC-J	Yes	7.9	EMPC-J	Yes	3.19		Yes	1.25		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	21.4		Yes	21.7		Yes	17		Yes	7.86		Yes	2.32		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	4.53		Yes	4.24	EMPC-J	Yes	3.01	EMPC-J	Yes	1.45		Yes	0.533		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	15.3	J	Yes	53.9	J	Yes	34.1	EMPC-J	Yes	5.64		Yes	0.888		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	3.84		Yes	4.52		Yes	2.68	EMPC-J	Yes	1.03	EMPC-J	Yes	0.281	EMPC-J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Nonachlorobiphenyl µg/kg Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	2.84		Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	0.99		Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	0.831		Yes
2008 LRC Program	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	16.3		Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	0.629		Yes
2008 LRC Program	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	53.9		Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	3.26	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	2.35		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	2.44		Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	2.97		Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	7.03	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.879		Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	1.2		Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.961		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.961		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	1.48		Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.84		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.871		Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.353		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	89.8	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	1.01		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.278		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	1.01	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	1.18	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	1.87		Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	1.29		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	0.206	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.644		Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.346		Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.305		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.899		Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.293		Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	2.09	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	15.5	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.17		Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.268	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.245		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.0771		Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	2.73	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.376		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.0739		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.488		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.726		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.202		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.241		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.0923		Yes

BERA Sediment Chemistry Data from Above Dundee Dam

							Included		1,2,3,4,6,7,8-HpCDD			1,2,3,4,7,8-HxCDD			1,2,3,6,7,8-HxCDD			1,2,3,7,8,9-HxCDD		
									ng/kg			ng/kg			ng/kg			ng/kg		
Event	Location	RM	X	Y	Sample Date	Sample ID	Background	SQT station	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	No	456	F	Yes	1.73	J	Yes	12.6	J	Yes	5.38	J	Yes
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	No	48.8	F	Yes	0.424	J	Yes	2.07	J	Yes	1.22	J	Yes
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	No	50.6	F	Yes	0.409	J	Yes	1.71	J	Yes	1.19	J	Yes
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	No	2090	JF	Yes	10.6	J	Yes	105	JF	Yes	31.9	J	Yes
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	No	13.9	J	Yes	0.276	U	No	0.87	J	Yes	0.603	J	Yes
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	No	436	JF	Yes	2.74	J	Yes	20	J	Yes	7.7	J	Yes
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	No	212		Yes	2.34	J	Yes	9.14		Yes	5.06	J	Yes
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	No	56		Yes	0.737	J	Yes	2.41	J	Yes	1.55	J	Yes
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	No	116		Yes	1.43	J	Yes	4.73		Yes	2.96	J	Yes
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	No	146		Yes	1.53	J	Yes	6.87		Yes	3.41	J	Yes
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	No	199		Yes	1.88	J	Yes	10.6		Yes	4.33	J	Yes
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	No	45.6		Yes	0.677	J	Yes	2.08	J	Yes	1.48	J	Yes
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	No	57.4		Yes	0.923	J	Yes	2.48	J	Yes	1.71	J	Yes
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	108		Yes	1.58	J	Yes	4.31	J	Yes	4.31	J	Yes
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	57.8		Yes	0.908	EMPC-J	Yes	1.7	J	Yes	1.25	J	Yes
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	220	J	Yes	1.06	J	Yes	5.74	J	Yes	2.54	J	Yes
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	18.7		Yes	0.303	EMPC-J	Yes	1.19	J	Yes	0.643	J	Yes
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	No	52.2		Yes	0.528	J	Yes	2.32	J	Yes	1.26	J	Yes
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	No	22.9		Yes	0.397	J	Yes	1.13	J	Yes	0.816	J	Yes
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	No	354	J	Yes	6.24	J	Yes	19.6	J	Yes	9.06	J	Yes
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	No	436		Yes	1.91	J	Yes	24	J	Yes	5.21	J	Yes
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	No	14.7		Yes	0.278	EMPC-J	Yes	0.799	J	Yes	0.624	J	Yes
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	No	40.8	J	Yes	0.626	J	Yes	1.73	J	Yes	1.15	J	Yes
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	No	84.5	J	Yes	2.14	EMPC-J	Yes	3.83	J	Yes	3.6	J	Yes
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	No	36.4		Yes	0.435	EMPC-J	Yes	1.67	J	Yes	1.27	J	Yes
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	No	35.8		Yes	0.45	J	Yes	1.45	J	Yes	1.07	J	Yes
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	60.8	J	Yes	2.05	J	Yes	3.28	J	Yes	3.35	J	Yes
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	42.3		Yes	0.592	EMPC-J	Yes	2.34	J	Yes	1.37	J	Yes
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	14.3		Yes	0.217	J	Yes	0.752	J	Yes	0.424	J	Yes
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	19.3		Yes	0.246	J	Yes	0.851	J	Yes	0.538	J	Yes
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	291		Yes	0.966	EMPC-J	Yes	13.1	J	Yes	2.75	J	Yes
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	30.7	J	Yes	0.391	J	Yes	1.35	J	Yes	0.92	J	Yes
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	274	J	Yes	4.16	J	Yes	10.9	J	Yes	8.59	J	Yes
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	340	J	Yes	4.58	J	Yes	21.2	J	Yes	12.3	J	Yes
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	12.4	J	Yes	0.204	J	Yes	0.633	J	Yes	0.529	J	Yes
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	49.8	J	Yes	1.25	J	Yes	2.17	J	Yes	1.77	EMPC-J	Yes
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	31.4	J	Yes	0.399	EMPC-J	Yes	1.37	J	Yes	1.11	J	Yes
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	13.9	J	Yes	0.126	UJ	No	0.329	EMPC-J	Yes	0.415	EMPC-J	Yes
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	534	J	Yes	7.2	J	Yes	19.8	J	Yes	16.8	J	Yes
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	24.1	J	Yes	0.323	J	Yes	1.03	J	Yes	0.83	J	Yes
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	6.7	J	Yes	0.171	J	Yes	0.411	J	Yes	0.337	J	Yes
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	50.5	J	Yes	0.94	J	Yes	2.34	J	Yes	6.72	J	Yes
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	87.9	J	Yes	1.01	J	Yes	3.26	J	Yes	2.35	J	Yes
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	7.02	J	Yes	0.114	EMPC-J	Yes	0.342	J	Yes	0.18	EMPC-J	Yes
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	4.48	J	Yes	0.114	J	Yes	0.245	J	Yes	0.188	J	Yes
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	6.7	J	Yes	0.127	UJ	No	0.458	J	Yes	0.29	J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

							Included	1,2,3,7,8-PeCDD			2,3,7,8-TCDD			OCDD			1,2,3,4,6,7,8-HpCDF			1,2,
							in	ng/kg			ng/kg			ng/kg			ng/kg			
Event	Location	RM	X	Y	Sample Date	Sample ID	Background	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	1.23	J	Yes	1.05	UJ	No	4960	F	Yes	111	F	Yes	4.99
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	0.424	J	Yes	0.467	U	No	672	F	Yes	20.4	F	Yes	0.669
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	0.253	U	No	0.167	U	No	750	F	Yes	18.7	F	Yes	0.787
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	9.95	J	Yes	36.6	JF	Yes	31400	JF	Yes	544	JF	Yes	22.7
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	0.241	J	Yes	0.0406	U	No	270	F	Yes	6.39	J	Yes	0.738
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	3.35	J	Yes	1.28	UJ	No	6530	JF	Yes	587	JF	Yes	12.4
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	1.64	J	Yes	1.34		Yes	2250		Yes	66.5		Yes	4.4
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.566	J	Yes	0.407	J	Yes	697		Yes	23		Yes	2.62
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	0.804	J	Yes	0.623	EMPC-J	Yes	1320		Yes	37		Yes	2.62
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	1.33	J	Yes	1.63		Yes	1700		Yes	44.9		Yes	3.22
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	1.86	J	Yes	0.827	EMPC-J	Yes	2660		Yes	217		Yes	6.82
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.492	EMPC-J	Yes	0.221	EMPC-J	Yes	513		Yes	13.4		Yes	0.855
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.45	EMPC-J	Yes	0.338	J	Yes	703		Yes	27.6		Yes	2.87
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.864	J	Yes	0.341	EMPC-J	Yes	1340		Yes	30.3	J	Yes	1.66
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.353	EMPC-J	Yes	0.285	EMPC-J	Yes	762		Yes	18.3	J	Yes	0.933
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.643	J	Yes	0.595	J	Yes	4290	J	Yes	43.5	J	Yes	2.66
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.252	J	Yes	0.272	J	Yes	210		Yes	9.4	J	Yes	0.587
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.393	EMPC-J	Yes	0.245	EMPC-J	Yes	472		Yes	12.6		Yes	0.794
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.24	J	Yes	0.164	J	Yes	244		Yes	9.78		Yes	0.539
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	4.31	J	Yes	1	J	Yes	5690	J	Yes	341	J	Yes	36.7
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	1.22	EMPC-J	Yes	0.329	EMPC-J	Yes	3280		Yes	50.2		Yes	2.59
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.249	J	Yes	0.198	J	Yes	156		Yes	5.85		Yes	0.351
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.416	J	Yes	0.261	J	Yes	433	J	Yes	13.8	J	Yes	0.857
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	2.04	EMPC-J	Yes	0.617	UJ	No	1760	J	Yes	60.2	J	Yes	6.68
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.423	EMPC-J	Yes	0.223	EMPC-J	Yes	426		Yes	15.1	J	Yes	0.751
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.285	EMPC-J	Yes	0.217	J	Yes	435		Yes	12.7	J	Yes	1.07
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	1.82	J	Yes	0.562	EMPC-J	Yes	2500	J	Yes	45.8	J	Yes	7.8
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.425	EMPC-J	Yes	0.317	U	No	507		Yes	13.5	J	Yes	0.688
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.244	U	No	0.184	U	No	162		Yes	5.93	J	Yes	0.217
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.167	J	Yes	0.124	U	No	213		Yes	6.65	J	Yes	0.26
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.662	J	Yes	0.517	EMPC-J	Yes	4040		Yes	237	J	Yes	7.64
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.276	J	Yes	0.173	J	Yes	358	J	Yes	26.2	J	Yes	0.656
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	2.51	J	Yes	1.15	EMPC-J	Yes	4150	J	Yes	116	J	Yes	14.5
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	5.26	J	Yes	1.85	EMPC-J	Yes	4600	J	Yes	364	J	Yes	15
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.188	J	Yes	0.128	U	No	127	J	Yes	4.54	J	Yes	0.278
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.822	J	Yes	0.37	EMPC-J	Yes	1270	J	Yes	55.2	J	Yes	7.2
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.283	J	Yes	0.185	J	Yes	313	J	Yes	10.1	J	Yes	0.484
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.145	UJ	No	0.0894	U	No	167	J	Yes	2.05	J	Yes	0.119
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	3.9	J	Yes	1.41	J	Yes	5430	J	Yes	195	J	Yes	10.3
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.278	J	Yes	0.125	J	Yes	277	J	Yes	9.37	J	Yes	0.654
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.106	UJ	No	0.0729	U	No	71.1	J	Yes	41.5	J	Yes	0.316
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	2	J	Yes	1.16	EMPC-J	Yes	812	J	Yes	4.39	J	Yes	0.283
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.564	J	Yes	0.376	J	Yes	907	J	Yes	24.7	J	Yes	1.67
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.0816	UJ	No	0.0943	J	Yes	87.4	J	Yes	1.98	J	Yes	0.168
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.0839	EMPC-J	Yes	0.0547	U	No	46	J	Yes	1.71	J	Yes	0.186
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.132	UJ	No	0.119	U	No	72.1	J	Yes	2.35	J	Yes	0.187

BERA Sediment Chemistry Data from Above Dundee Dam

							Included	3,4,7,8,9-HpCDF		1,2,3,4,7,8-HxCDF		
							in	ng/kg		ng/kg		
Event	Location	RM	X	Y	Sample Date	Sample ID	Background	Qual	Detect	Value	Qual	Detect
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	J	Yes	8.88	J	Yes
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	J	Yes	2.41	U	No
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	J	Yes	2.28	U	No
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	J	Yes	51.8	JF	Yes
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	J	Yes	4.15	U	No
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	J	Yes	27.5	J	Yes
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes		Yes	7.36		Yes
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes		Yes	2.56		Yes
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes		Yes	3.38		Yes
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes		Yes	6.08		Yes
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes		Yes	9.16		Yes
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	EMPC-J	Yes	1.91	J	Yes
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes		Yes	6.6	J	Yes
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	J	Yes	1.94	J	Yes
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	EMPC-J	Yes	1.52	J	Yes
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	J	Yes	4.08		Yes
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	J	Yes	1.09	J	Yes
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	EMPC-J	Yes	1.45	J	Yes
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	EMPC-J	Yes	1.02	J	Yes
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	J	Yes	33.9	J	Yes
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	J	Yes	5.13		Yes
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	J	Yes	0.765	J	Yes
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	J	Yes	1.45	J	Yes
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	J	Yes	10.8	J	Yes
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	EMPC-J	Yes	4.24		Yes
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	J	Yes	1.74	J	Yes
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	J	Yes	15.7	J	Yes
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	EMPC-J	Yes	1.5	J	Yes
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	U	No	0.704	J	Yes
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	EMPC-J	Yes	0.717	J	Yes
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No		Yes	4.15		Yes
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	J	Yes	0.922	J	Yes
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	J	Yes	21.6	J	Yes
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	J	Yes	26.9	J	Yes
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	J	Yes	0.39	EMPC-J	Yes
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	J	Yes	14.8	J	Yes
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	EMPC-J	Yes	0.762	J	Yes
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	U	No	0.256	J	Yes
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	J	Yes	11.2	J	Yes
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	J	Yes	0.958	J	Yes
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	J	Yes	0.41	J	Yes
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	J	Yes	0.574	J	Yes
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	J	Yes	1.92	J	Yes
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	J	Yes	0.216	J	Yes
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	J	Yes	0.301	J	Yes
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	U	No	0.271	J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

							Included	1,2,3,6,7,8-HxCDF			1,2,3,7,8,9-HxCDF			1,2,3,7,8-PeCDF			2,3,4,6,7,8-HxCDF			2,
							in	ng/kg			ng/kg			ng/kg			ng/kg			
Event	Location	RM	X	Y	Sample Date	Sample ID	Background	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	9.61	J	Yes	0.48	U	No	2.81	UJ	No	0.512	U	No	4.86
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	1.52	U	No	0.0824	U	No	0.548	UJ	No	1.53	J	Yes	0.91
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	1.2	UJ	No	0.13	U	No	0.852	U	No	0.564	J	Yes	0.887
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	27.4	J	Yes	1.07	UJ	No	13.5	J	Yes	14.1	J	Yes	23.3
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	1.45	U	No	0.188	UJ	No	1.79	U	No	1.38	J	Yes	1.28
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	32.1	J	Yes	1.19	UJ	No	9.08	UJ	No	40.5	J	Yes	16.8
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	6.2		Yes	0.104	UJ	No	2.29	J	Yes	7.2		Yes	9.09
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	1.99	J	Yes	0.142	UJ	No	0.744	J	Yes	2.68		Yes	3.6
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	3.03		Yes	0.14	UJ	No	1.26	J	Yes	3.76		Yes	5.19
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	5.36		Yes	0.108	UJ	No	1.92	J	Yes	6.55		Yes	0.12
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	13.5		Yes	0.13	UJ	No	2.92		Yes	23.2		Yes	41.9
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	1.83	J	Yes	0.166	UJ	No	0.728	EMPC-J	Yes	2.2	J	Yes	3.55
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	3.71		Yes	0.264	U	No	1.55	J	Yes	3.91	J	Yes	5.6
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	1.69	J	Yes	0.268	UJ	No	0.486	EMPC-J	Yes	2.43		Yes	2.35
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	1.22	J	Yes	0.254	EMPC-J	Yes	0.53	EMPC-J	Yes	0.341	U	No	2.63
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	3.07		Yes	0.136	UJ	No	1.01	J	Yes	3.92		Yes	4.29
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	1	J	Yes	0.105	UJ	No	0.5	J	Yes	1.36	J	Yes	2.09
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	1.16	EMPC-J	Yes	0.0916	U	No	0.683	J	Yes	1.73	J	Yes	2.46
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.775	J	Yes	0.0678	UJ	No	0.331	J	Yes	0.952	J	Yes	1.06
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	51.8	J	Yes	0.219	UJ	No	13.7	J	Yes	58.2	J	Yes	69
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	3.69		Yes	0.208	UJ	No	2.06	J	Yes	5.56		Yes	5.58
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.689	J	Yes	0.149	UJ	No	0.439	J	Yes	1.04	J	Yes	2.12
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	1.36	J	Yes	0.0683	UJ	No	0.681	J	Yes	1.74	J	Yes	2.53
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	7.9	J	Yes	0.611	UJ	No	7.25	J	Yes	7.47	EMPC-J	Yes	10.7
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	2.55		Yes	0.121	UJ	No	3.63		Yes	3.03		Yes	6.04
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	1.18	J	Yes	0.126	UJ	No	0.566	J	Yes	1.57	J	Yes	2.23
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	9.5	J	Yes	0.304	UJ	No	10.8	J	Yes	8.31	J	Yes	10.9
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	1.41	J	Yes	0.169	UJ	No	0.506	EMPC-J	Yes	1.67	J	Yes	2.97
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.512	EMPC-J	Yes	0.207	UJ	No	0.281	J	Yes	0.729	J	Yes	0.964
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.435	EMPC-J	Yes	0.155	UJ	No	0.243	J	Yes	0.622	EMPC-J	Yes	1.01
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	5.76		Yes	0.288	UJ	No	0.827	J	Yes	6.4	J	Yes	7.17
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.81	J	Yes	0.166	J	Yes	0.234	EMPC-J	Yes	1.21	J	Yes	1.1
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	12.9	J	Yes	2.38	J	Yes	8.78	J	Yes	11.9	J	Yes	12.3
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	31.5	J	Yes	3.54	J	Yes	9.21	J	Yes	54.4	J	Yes	101
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.398	J	Yes	0.165	UJ	No	0.157	EMPC-J	Yes	0.588	J	Yes	0.948
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	6.83	J	Yes	1.04	J	Yes	7.82	J	Yes	5.49	J	Yes	8.15
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.791	J	Yes	0.098	UJ	No	0.26	J	Yes	1.06	J	Yes	1.13
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.204	J	Yes	0.171	UJ	No	0.174	J	Yes	0.266	EMPC-J	Yes	0.524
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	11.4	J	Yes	1.01	J	Yes	3.03	J	Yes	14	J	Yes	10.8
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.991	J	Yes	0.138	UJ	No	0.313	EMPC-J	Yes	1.65	J	Yes	2.04
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.455	J	Yes	0.127	UJ	No	0.101	U	No	0.495	J	Yes	0.319
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.551	J	Yes	0.215	UJ	No	0.16	U	No	0.658	J	Yes	1.37
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	1.82	J	Yes	0.156	EMPC-J	Yes	0.55	J	Yes	2.3		Yes	2.66
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.197	J	Yes	0.0758	UJ	No	0.0837	EMPC-J	Yes	0.236	J	Yes	0.44
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.261	J	Yes	0.0616	UJ	No	0.163	J	Yes	0.313	J	Yes	0.571
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.276	J	Yes	0.137	UJ	No	0.0983	U	No	0.379	J	Yes	0.517

BERA Sediment Chemistry Data from Above Dundee Dam

							Included	3,4,7,8-PeCDF		2,3,7,8-TCDF		
							in	ng/kg		ng/kg		
Event	Location	RM	X	Y	Sample Date	Sample ID	Background	Qual	Detect	Value	Qual	Detect
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	J	Yes	13.6	JF	Yes
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	U	No	2.58	JF	Yes
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	J	Yes	2.98	F	Yes
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	J	Yes	315	JF	Yes
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	U	No	4.63	F	Yes
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	J	Yes	5.29	JF	Yes
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	J	Yes	8.26		Yes
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	J	Yes	2.68		Yes
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	J	Yes	5.44		Yes
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	UJ	No	11.1		Yes
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	J	Yes	5.91		Yes
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	J	Yes	2.01		Yes
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	J	Yes	3.67		Yes
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	J	Yes	2.02		Yes
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	J	Yes	1.99		Yes
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	J	Yes	3.36		Yes
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	J	Yes	1.25		Yes
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	J	Yes	1.99		Yes
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	J	Yes	0.498	EMPC-J	Yes
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	J	Yes	13	J	Yes
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes		Yes	1.79		Yes
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	J	Yes	0.939		Yes
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	J	Yes	1.38	J	Yes
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	J	Yes	9.41	J	Yes
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes		Yes	5.17		Yes
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	J	Yes	1.12		Yes
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	J	Yes	16.7	J	Yes
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	J	Yes	3.08	EMPC-J	Yes
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	EMPC-J	Yes	1.1	EMPC-J	Yes
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	J	Yes	0.709		Yes
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	J	Yes	2.61		Yes
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	J	Yes	0.764		Yes
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	J	Yes	9.13	J	Yes
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	J	Yes	12.8	J	Yes
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	J	Yes	0.308	J	Yes
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	J	Yes	18.9	J	Yes
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	J	Yes	0.591		Yes
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	J	Yes	0.311	J	Yes
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	J	Yes	6.8	J	Yes
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	J	Yes	0.652		Yes
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	EMPC-J	Yes	0.199	J	Yes
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	J	Yes	0.702	EMPC-J	Yes
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		Yes	1.32		Yes
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	J	Yes	0.29	J	Yes
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	J	Yes	0.489		Yes
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	J	Yes	0.405	J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

							Included	OCDF			PCDD TEQ-Bird			PCDD TEQ-Bird (ND=0.5DL)			PCDD TEQ-Bird (ND=DL)			P
							in	ng/kg			ng/kg			ng/kg			ng/kg			
Event	Location	RM	X	Y	Sample Date	Sample ID	Background	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	346	F	Yes	2.93	J	Yes	3.46	J	Yes	3.98	J	Yes	3.23
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	41.6	F	Yes	0.704	J	Yes	0.937	J	Yes	1.17	J	Yes	0.785
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	50.7	F	Yes	0.282	J	Yes	0.492	J	Yes	0.702	J	Yes	0.359
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	1540	JF	Yes	56.6	JF	Yes	56.6	JF	Yes	56.6	JF	Yes	58.4
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	8.37	J	Yes	0.351	J	Yes	0.378	J	Yes	0.405	J	Yes	0.297
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	563	JF	Yes	5.55	JF	Yes	6.19	JF	Yes	6.83	JF	Yes	6.09
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	130		Yes	4.13	J	Yes	4.13	J	Yes	4.13	J	Yes	4.73
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	54.2		Yes	1.31	J	Yes	1.31	J	Yes	1.31	J	Yes	1.51
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	75.7		Yes	2.09	J	Yes	2.09	J	Yes	2.09	J	Yes	2.47
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	76.5		Yes	3.76	J	Yes	3.76	J	Yes	3.76	J	Yes	4.14
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	292		Yes	3.79	J	Yes	3.79	J	Yes	3.79	J	Yes	4.24
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	21.4		Yes	1.01	J	Yes	1.01	J	Yes	1.01	J	Yes	1.18
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	47.2		Yes	1.16	J	Yes	1.16	J	Yes	1.16	J	Yes	1.42
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	54.7	J	Yes	2	J	Yes	2	J	Yes	2	J	Yes	2.32
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	39.9	J	Yes	0.959	J	Yes	0.959	J	Yes	0.959	J	Yes	1.26
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	89.1	J	Yes	2.25	J	Yes	2.25	J	Yes	2.25	J	Yes	2.5
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	15.4	J	Yes	0.655	J	Yes	0.655	J	Yes	0.655	J	Yes	0.734
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	30.6		Yes	0.913	J	Yes	0.913	J	Yes	0.913	J	Yes	1.04
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	17.2		Yes	0.564	J	Yes	0.564	J	Yes	0.564	J	Yes	0.669
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	471	J	Yes	7.65	J	Yes	7.65	J	Yes	7.65	J	Yes	9.64
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	79.7		Yes	3.17	J	Yes	3.17	J	Yes	3.17	J	Yes	3.56
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	9.47		Yes	0.562	J	Yes	0.562	J	Yes	0.562	J	Yes	0.631
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	22.8	J	Yes	0.925	J	Yes	0.925	J	Yes	0.925	J	Yes	1.1
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	134	J	Yes	2.81	J	Yes	3.11	J	Yes	3.42	J	Yes	3.44
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	26.9		Yes	0.89	J	Yes	0.89	J	Yes	0.89	J	Yes	0.972
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	47.6		Yes	0.725	J	Yes	0.725	J	Yes	0.725	J	Yes	0.832
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	98.4	J	Yes	3.16	J	Yes	3.16	J	Yes	3.16	J	Yes	3.78
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	22	J	Yes	0.708	J	Yes	0.867	J	Yes	1.03	J	Yes	0.851
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	9.95	J	Yes	0.0913	J	Yes	0.305	J	Yes	0.519	J	Yes	0.151
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	12.1	J	Yes	0.282	J	Yes	0.344	J	Yes	0.406	J	Yes	0.344
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	663	J	Yes	2.33	J	Yes	2.33	J	Yes	2.33	J	Yes	2.52
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	26.8		Yes	0.641	J	Yes	0.641	J	Yes	0.641	J	Yes	0.734
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	267	J	Yes	5.53	J	Yes	5.53	J	Yes	5.53	J	Yes	6.62
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	335	J	Yes	9.58	J	Yes	9.58	J	Yes	9.58	J	Yes	10.5
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	8.01		Yes	0.283	J	Yes	0.347	J	Yes	0.411	J	Yes	0.327
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	110	J	Yes	1.63	J	Yes	1.63	J	Yes	1.63	J	Yes	2.03
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	19.3		Yes	0.675	J	Yes	0.675	J	Yes	0.675	J	Yes	0.755
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	5.73		Yes	0.0754	J	Yes	0.196	J	Yes	0.316	J	Yes	0.038
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	444	J	Yes	8.63	J	Yes	8.63	J	Yes	8.63	J	Yes	10.4
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	16.3		Yes	0.564	J	Yes	0.564	J	Yes	0.564	J	Yes	0.635
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	15.2		Yes	0.0602	J	Yes	0.15	J	Yes	0.239	J	Yes	0.107
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	8.98		Yes	4.03	J	Yes	4.03	J	Yes	4.03	J	Yes	3.85
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	56.8		Yes	1.44	J	Yes	1.44	J	Yes	1.44	J	Yes	1.68
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	2.72	J	Yes	0.137	J	Yes	0.178	J	Yes	0.219	J	Yes	0.172
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	3.12	J	Yes	0.12	J	Yes	0.147	J	Yes	0.175	J	Yes	0.154
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	3.84	EMPC-J	Yes	0.0475	J	Yes	0.176	J	Yes	0.305	J	Yes	0.0214

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	CDD TEQ-Fish ng/kg Qual	CDD TEQ-Fish ng/kg Detect	PCDD TEQ-Fish (ND=0.5DL) ng/kg Value	PCDD TEQ-Fish (ND=0.5DL) ng/kg Qual	PCDD TEQ-Fish (ND=0.5DL) ng/kg Detect
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	J	Yes	3.75	J	Yes
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	J	Yes	1.02	J	Yes
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	J	Yes	0.569	J	Yes
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	JF	Yes	58.4	JF	Yes
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	J	Yes	0.386	J	Yes
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	JF	Yes	6.73	JF	Yes
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	J	Yes	4.73	J	Yes
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	J	Yes	1.51	J	Yes
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	J	Yes	2.47	J	Yes
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	J	Yes	4.14	J	Yes
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	J	Yes	4.24	J	Yes
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	J	Yes	1.18	J	Yes
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	J	Yes	1.42	J	Yes
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	J	Yes	2.32	J	Yes
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	J	Yes	1.26	J	Yes
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	J	Yes	2.5	J	Yes
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	J	Yes	0.734	J	Yes
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	J	Yes	1.04	J	Yes
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	J	Yes	0.669	J	Yes
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	J	Yes	9.64	J	Yes
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	J	Yes	3.56	J	Yes
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	J	Yes	0.631	J	Yes
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	J	Yes	1.1	J	Yes
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	J	Yes	3.75	J	Yes
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	J	Yes	0.972	J	Yes
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	J	Yes	0.832	J	Yes
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	J	Yes	3.78	J	Yes
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	J	Yes	1.01	J	Yes
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	J	Yes	0.365	J	Yes
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	J	Yes	0.406	J	Yes
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	J	Yes	2.52	J	Yes
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	J	Yes	0.734	J	Yes
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	J	Yes	6.62	J	Yes
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	J	Yes	10.5	J	Yes
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	J	Yes	0.391	J	Yes
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	J	Yes	2.03	J	Yes
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	J	Yes	0.755	J	Yes
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	J	Yes	0.187	J	Yes
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	J	Yes	10.4	J	Yes
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	J	Yes	0.635	J	Yes
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	J	Yes	0.196	J	Yes
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	J	Yes	3.85	J	Yes
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	J	Yes	1.68	J	Yes
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	J	Yes	0.213	J	Yes
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	J	Yes	0.182	J	Yes
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	J	Yes	0.179	J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	PCDD TEQ-Fish (ND=DL) ng/kg			PCDD TEQ-Mammal ng/kg			PCDD TEQ-Mammal (ND=0.5DL) ng/kg			PCDD TEQ-Mammal (ND=DL) ng/kg			P
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	4.28	J	Yes	9.25	J	Yes	9.77	J	Yes	10.3	J	Yes	21.5
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	1.25	J	Yes	1.49	J	Yes	1.72	J	Yes	1.95	J	Yes	2.95
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	0.779	J	Yes	1.06	J	Yes	1.27	J	Yes	1.48	J	Yes	4.12
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	58.4	JF	Yes	91.6	JF	Yes	91.6	JF	Yes	91.6	JF	Yes	355
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	0.475	J	Yes	0.608	J	Yes	0.642	J	Yes	0.677	J	Yes	4.84
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	7.37	JF	Yes	12.7	JF	Yes	13.4	JF	Yes	14	JF	Yes	38.2
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	4.73	J	Yes	7.42	J	Yes	7.42	J	Yes	7.42	J	Yes	20.4
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	1.51	J	Yes	2.21	J	Yes	2.21	J	Yes	2.21	J	Yes	7.34
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	2.47	J	Yes	3.9	J	Yes	3.9	J	Yes	3.9	J	Yes	12.2
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	4.14	J	Yes	6.11	J	Yes	6.11	J	Yes	6.11	J	Yes	13.6
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	4.24	J	Yes	7.16	J	Yes	7.16	J	Yes	7.16	J	Yes	55
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	1.18	J	Yes	1.75	J	Yes	1.75	J	Yes	1.75	J	Yes	6.37
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	1.42	J	Yes	2.08	J	Yes	2.08	J	Yes	2.08	J	Yes	11.2
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	2.32	J	Yes	3.71	J	Yes	3.71	J	Yes	3.71	J	Yes	5.35
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	1.26	J	Yes	1.83	J	Yes	1.83	J	Yes	1.83	J	Yes	5.17
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	2.5	J	Yes	5.66	J	Yes	5.66	J	Yes	5.66	J	Yes	9.32
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.734	J	Yes	0.988	J	Yes	0.988	J	Yes	0.988	J	Yes	3.84
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	1.04	J	Yes	1.71	J	Yes	1.71	J	Yes	1.71	J	Yes	5.09
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.669	J	Yes	0.941	J	Yes	0.941	J	Yes	0.941	J	Yes	1.97
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	9.64	J	Yes	14	J	Yes	14	J	Yes	14	J	Yes	102
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	3.56	J	Yes	10	J	Yes	10	J	Yes	10	J	Yes	9.55
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.631	J	Yes	0.811	J	Yes	0.811	J	Yes	0.811	J	Yes	3.42
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	1.1	J	Yes	1.57	J	Yes	1.57	J	Yes	1.57	J	Yes	4.58
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	4.06	J	Yes	4.37	J	Yes	4.68	J	Yes	4.99	J	Yes	24.1
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.972	J	Yes	1.48	J	Yes	1.48	J	Yes	1.48	J	Yes	12.7
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.832	J	Yes	1.29	J	Yes	1.29	J	Yes	1.29	J	Yes	4
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	3.78	J	Yes	4.61	J	Yes	4.61	J	Yes	4.61	J	Yes	32.6
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	1.17	J	Yes	1.43	J	Yes	1.59	J	Yes	1.75	J	Yes	6.7
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.579	J	Yes	0.331	J	Yes	0.545	J	Yes	0.759	J	Yes	2.35
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.468	J	Yes	0.587	J	Yes	0.649	J	Yes	0.711	J	Yes	1.99
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	2.52	J	Yes	6.98	J	Yes	6.98	J	Yes	6.98	J	Yes	14
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.734	J	Yes	1.13	J	Yes	1.13	J	Yes	1.13	J	Yes	2.47
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	6.62	J	Yes	10	J	Yes	10	J	Yes	10	J	Yes	28.5
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	10.5	J	Yes	15.7	J	Yes	15.7	J	Yes	15.7	J	Yes	130
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.455	J	Yes	0.487	J	Yes	0.551	J	Yes	0.615	J	Yes	1.46
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	2.03	J	Yes	2.59	J	Yes	2.59	J	Yes	2.59	J	Yes	31.3
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.755	J	Yes	1.16	J	Yes	1.16	J	Yes	1.16	J	Yes	2.12
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.335	J	Yes	0.264	J	Yes	0.387	J	Yes	0.511	J	Yes	0.946
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	10.4	J	Yes	16.7	J	Yes	16.7	J	Yes	16.7	J	Yes	23.8
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.635	J	Yes	0.945	J	Yes	0.945	J	Yes	0.945	J	Yes	3.19
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.286	J	Yes	0.18	J	Yes	0.27	J	Yes	0.359	J	Yes	1.07
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	3.85	J	Yes	4.91	J	Yes	4.91	J	Yes	4.91	J	Yes	2.3
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	1.68	J	Yes	2.75	J	Yes	2.75	J	Yes	2.75	J	Yes	4.92
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.254	J	Yes	0.254	J	Yes	0.295	J	Yes	0.336	J	Yes	0.825
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.209	J	Yes	0.197	J	Yes	0.225	J	Yes	0.252	J	Yes	1.18
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.336	J	Yes	0.163	J	Yes	0.295	J	Yes	0.427	J	Yes	1.04

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	CDF TEQ-Bird ng/kg Qual	CDF TEQ-Bird ng/kg Detect	PCDF TEQ-Bird (ND=0.5DL) ng/kg Value	PCDF TEQ-Bird (ND=0.5DL) ng/kg Qual	PCDF TEQ-Bird (ND=0.5DL) ng/kg Detect
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	JF	Yes	21.7	JF	Yes
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	JF	Yes	3.63	JF	Yes
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	J	Yes	4.35	J	Yes
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	JF	Yes	355	JF	Yes
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	J	Yes	5.86	J	Yes
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	JF	Yes	38.7	JF	Yes
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	J	Yes	20.4	J	Yes
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	J	Yes	7.35	J	Yes
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	J	Yes	12.2	J	Yes
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	J	Yes	13.6	J	Yes
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	J	Yes	55	J	Yes
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	J	Yes	6.38	J	Yes
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	J	Yes	11.2	J	Yes
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	J	Yes	5.36	J	Yes
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	J	Yes	5.19	J	Yes
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	J	Yes	9.33	J	Yes
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	J	Yes	3.84	J	Yes
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	J	Yes	5.09	J	Yes
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	J	Yes	1.97	J	Yes
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	J	Yes	102	J	Yes
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	J	Yes	9.56	J	Yes
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	J	Yes	3.42	J	Yes
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	J	Yes	4.59	J	Yes
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	J	Yes	24.2	J	Yes
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	J	Yes	12.7	J	Yes
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	J	Yes	4	J	Yes
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	J	Yes	32.6	J	Yes
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	J	Yes	6.71	J	Yes
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	J	Yes	2.36	J	Yes
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	J	Yes	2	J	Yes
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	J	Yes	14	J	Yes
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	J	Yes	2.47	J	Yes
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	J	Yes	28.5	J	Yes
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	J	Yes	130	J	Yes
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	J	Yes	1.47	J	Yes
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	J	Yes	31.3	J	Yes
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	J	Yes	2.12	J	Yes
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	J	Yes	0.955	J	Yes
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	J	Yes	23.8	J	Yes
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	J	Yes	3.19	J	Yes
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	J	Yes	1.09	J	Yes
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	J	Yes	2.32	J	Yes
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	J	Yes	4.92	J	Yes
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	J	Yes	0.829	J	Yes
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	J	Yes	1.19	J	Yes
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	J	Yes	1.05	J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

							Included	PCDF TEQ-Bird (ND=DL)			PCDF TEQ-Fish			PCDF TEQ-Fish (ND=0.5DL)			PCDF TEQ-Fish (ND=DL)			PCI
							in	ng/kg			ng/kg			ng/kg			ng/kg			
Event	Location	RM	X	Y	Sample Date	Sample ID	Background	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	21.9	JF	Yes	6.15	JF	Yes	6.27	JF	Yes	6.39	JF	Yes	5.93
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	4.31	JF	Yes	0.497	JF	Yes	0.939	JF	Yes	1.38	JF	Yes	0.634
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	4.57	J	Yes	0.849	J	Yes	1.05	J	Yes	1.25	J	Yes	0.831
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	355	JF	Yes	43.2	JF	Yes	43.3	JF	Yes	43.3	JF	Yes	54.4
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	6.88	J	Yes	0.442	J	Yes	1.1	J	Yes	1.75	J	Yes	0.675
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	39.2	JF	Yes	24.7	JF	Yes	25	JF	Yes	25.3	JF	Yes	21.7
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	20.4	J	Yes	7.87	J	Yes	7.88	J	Yes	7.88	J	Yes	6.45
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	7.35	J	Yes	2.96	J	Yes	2.96	J	Yes	2.97	J	Yes	2.37
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	12.2	J	Yes	4.35	J	Yes	4.36	J	Yes	4.36	J	Yes	3.57
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	13.7	J	Yes	2.94	J	Yes	2.97	J	Yes	3.01	J	Yes	3.47
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	55	J	Yes	28.2	J	Yes	28.3	J	Yes	28.3	J	Yes	20.2
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	6.39	J	Yes	2.65	J	Yes	2.66	J	Yes	2.67	J	Yes	2.03
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	11.2	J	Yes	4.79	J	Yes	4.81	J	Yes	4.82	J	Yes	3.83
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	5.38	J	Yes	2.23	J	Yes	2.24	J	Yes	2.26	J	Yes	1.86
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	5.2	J	Yes	1.94	J	Yes	1.95	J	Yes	1.97	J	Yes	1.51
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	9.33	J	Yes	3.94	J	Yes	3.95	J	Yes	3.95	J	Yes	3.25
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	3.85	J	Yes	1.58	J	Yes	1.58	J	Yes	1.59	J	Yes	1.22
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	5.1	J	Yes	1.93	J	Yes	1.94	J	Yes	1.94	J	Yes	1.53
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	1.98	J	Yes	0.951	J	Yes	0.954	J	Yes	0.958	J	Yes	0.761
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	102	J	Yes	54	J	Yes	54.1	J	Yes	54.1	J	Yes	40.7
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	9.57	J	Yes	4.96	J	Yes	4.97	J	Yes	4.98	J	Yes	3.9
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	3.43	J	Yes	1.44	J	Yes	1.45	J	Yes	1.46	J	Yes	1.06
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	4.59	J	Yes	1.97	J	Yes	1.98	J	Yes	1.98	J	Yes	1.53
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	24.2	J	Yes	9.48	J	Yes	9.51	J	Yes	9.54	J	Yes	7.69
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	12.7	J	Yes	4.6	J	Yes	4.61	J	Yes	4.62	J	Yes	3.59
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	4.01	J	Yes	1.79	J	Yes	1.8	J	Yes	1.8	J	Yes	1.4
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	32.6	J	Yes	10.7	J	Yes	10.7	J	Yes	10.8	J	Yes	9.18
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	6.72	J	Yes	2.27	J	Yes	2.27	J	Yes	2.28	J	Yes	1.82
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	2.37	J	Yes	0.806	J	Yes	0.817	J	Yes	0.829	J	Yes	0.664
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	2.01	J	Yes	0.8	J	Yes	0.808	J	Yes	0.816	J	Yes	0.631
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	14	J	Yes	7.9	J	Yes	7.91	J	Yes	7.93	J	Yes	6.71
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	2.47	J	Yes	1.18	J	Yes	1.18	J	Yes	1.18	J	Yes	1
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	28.5	J	Yes	13.3	J	Yes	13.3	J	Yes	13.3	J	Yes	11.1
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	130	J	Yes	67.1	J	Yes	67.1	J	Yes	67.1	J	Yes	47.4
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	1.47	J	Yes	0.684	J	Yes	0.692	J	Yes	0.7	J	Yes	0.508
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	31.3	J	Yes	8.86	J	Yes	8.86	J	Yes	8.86	J	Yes	8.04
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	2.13	J	Yes	0.977	J	Yes	0.982	J	Yes	0.986	J	Yes	0.779
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.964	J	Yes	0.38	J	Yes	0.389	J	Yes	0.398	J	Yes	0.288
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	23.8	J	Yes	11.7	J	Yes	11.7	J	Yes	11.7	J	Yes	9.96
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	3.2	J	Yes	1.53	J	Yes	1.54	J	Yes	1.54	J	Yes	1.15
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	1.1	J	Yes	0.725	J	Yes	0.734	J	Yes	0.743	J	Yes	0.674
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	2.34	J	Yes	0.946	J	Yes	0.961	J	Yes	0.976	J	Yes	0.709
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	4.92	J	Yes	2.31	J	Yes	2.31	J	Yes	2.31	J	Yes	1.85
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.833	J	Yes	0.325	J	Yes	0.329	J	Yes	0.333	J	Yes	0.251
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	1.19	J	Yes	0.425	J	Yes	0.428	J	Yes	0.431	J	Yes	0.332
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	1.06	J	Yes	0.395	J	Yes	0.405	J	Yes	0.416	J	Yes	0.313

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	DF TEQ-Mammal ng/kg Qual	DF TEQ-Mammal ng/kg Detect
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	JF	Yes
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	JF	Yes
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	J	Yes
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	JF	Yes
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	J	Yes
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	JF	Yes
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	J	Yes
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	J	Yes
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	J	Yes
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	J	Yes
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	J	Yes
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	J	Yes
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	J	Yes
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	J	Yes
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	J	Yes
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	J	Yes
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	J	Yes
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	J	Yes
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	J	Yes
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	J	Yes
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	J	Yes
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	J	Yes
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	J	Yes
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	J	Yes
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	J	Yes
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	J	Yes
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	J	Yes
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	J	Yes
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	J	Yes
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	J	Yes
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	J	Yes
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	J	Yes
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	J	Yes
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	J	Yes
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	J	Yes
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	J	Yes
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	J	Yes
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	J	Yes
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	J	Yes
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	J	Yes
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	J	Yes
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	J	Yes
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	J	Yes
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	J	Yes
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	J	Yes
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

							Included	PCDF TEQ-Mammal (ND=0.5DL)			PCDF TEQ-Mammal (ND=DL)			Dioxin TEQ-Bird			Dioxin TEQ-Bird (ND=0.5DL)			Dioxin
							in	ng/kg			ng/kg			ng/kg			ng/kg			
Event	Location	RM	X	Y	Sample Date	Sample ID	Background	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	6.02	JF	Yes	6.11	JF	Yes	24.4	JF	Yes	25.2	JF	Yes	25.9
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	0.98	JF	Yes	1.32	JF	Yes	3.65	JF	Yes	4.57	JF	Yes	5.48
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	1.02	J	Yes	1.22	J	Yes	4.41	J	Yes	4.84	J	Yes	5.27
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	54.4	JF	Yes	54.5	JF	Yes	411	JF	Yes	411	JF	Yes	411
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	1.18	J	Yes	1.69	J	Yes	5.19	J	Yes	6.24	J	Yes	7.28
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	21.9	JF	Yes	22.1	JF	Yes	43.7	JF	Yes	44.8	JF	Yes	46
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	6.45	J	Yes	6.46	J	Yes	24.5	J	Yes	24.5	J	Yes	24.5
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	2.37	J	Yes	2.38	J	Yes	8.65	J	Yes	8.66	J	Yes	8.67
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	3.58	J	Yes	3.59	J	Yes	14.3	J	Yes	14.3	J	Yes	14.3
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	3.49	J	Yes	3.52	J	Yes	17.3	J	Yes	17.4	J	Yes	17.5
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	20.2	J	Yes	20.2	J	Yes	58.7	J	Yes	58.7	J	Yes	58.8
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	2.04	J	Yes	2.05	J	Yes	7.38	J	Yes	7.39	J	Yes	7.4
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	3.85	J	Yes	3.86	J	Yes	12.3	J	Yes	12.3	J	Yes	12.3
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	1.88	J	Yes	1.89	J	Yes	7.35	J	Yes	7.36	J	Yes	7.38
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	1.52	J	Yes	1.54	J	Yes	6.13	J	Yes	6.15	J	Yes	6.16
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	3.26	J	Yes	3.26	J	Yes	11.6	J	Yes	11.6	J	Yes	11.6
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	1.22	J	Yes	1.23	J	Yes	4.49	J	Yes	4.5	J	Yes	4.5
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	1.54	J	Yes	1.54	J	Yes	6	J	Yes	6.01	J	Yes	6.01
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.764	J	Yes	0.768	J	Yes	2.53	J	Yes	2.54	J	Yes	2.54
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	40.7	J	Yes	40.7	J	Yes	109	J	Yes	109	J	Yes	109
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	3.92	J	Yes	3.93	J	Yes	12.7	J	Yes	12.7	J	Yes	12.7
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	1.06	J	Yes	1.07	J	Yes	3.98	J	Yes	3.98	J	Yes	3.99
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	1.53	J	Yes	1.53	J	Yes	5.51	J	Yes	5.51	J	Yes	5.51
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	7.73	J	Yes	7.76	J	Yes	26.9	J	Yes	27.3	J	Yes	27.6
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	3.59	J	Yes	3.6	J	Yes	13.6	J	Yes	13.6	J	Yes	13.6
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	1.41	J	Yes	1.41	J	Yes	4.72	J	Yes	4.73	J	Yes	4.74
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	9.2	J	Yes	9.21	J	Yes	35.7	J	Yes	35.8	J	Yes	35.8
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	1.83	J	Yes	1.84	J	Yes	7.41	J	Yes	7.58	J	Yes	7.74
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.676	J	Yes	0.687	J	Yes	2.44	J	Yes	2.66	J	Yes	2.89
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.639	J	Yes	0.647	J	Yes	2.27	J	Yes	2.34	J	Yes	2.41
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	6.73	J	Yes	6.74	J	Yes	16.3	J	Yes	16.3	J	Yes	16.4
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	1	J	Yes	1	J	Yes	3.11	J	Yes	3.11	J	Yes	3.11
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	11.1	J	Yes	11.1	J	Yes	34	J	Yes	34	J	Yes	34
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	47.4	J	Yes	47.4	J	Yes	140	J	Yes	140	J	Yes	140
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.516	J	Yes	0.525	J	Yes	1.74	J	Yes	1.81	J	Yes	1.89
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	8.04	J	Yes	8.04	J	Yes	32.9	J	Yes	32.9	J	Yes	32.9
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.784	J	Yes	0.789	J	Yes	2.79	J	Yes	2.8	J	Yes	2.8
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.297	J	Yes	0.307	J	Yes	1.02	J	Yes	1.15	J	Yes	1.28
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	9.96	J	Yes	9.96	J	Yes	32.4	J	Yes	32.4	J	Yes	32.4
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	1.16	J	Yes	1.17	J	Yes	3.75	J	Yes	3.76	J	Yes	3.76
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.682	J	Yes	0.69	J	Yes	1.13	J	Yes	1.23	J	Yes	1.34
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.722	J	Yes	0.735	J	Yes	6.33	J	Yes	6.35	J	Yes	6.37
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	1.85	J	Yes	1.85	J	Yes	6.36	J	Yes	6.36	J	Yes	6.36
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.254	J	Yes	0.258	J	Yes	0.962	J	Yes	1.01	J	Yes	1.05
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.336	J	Yes	0.339	J	Yes	1.3	J	Yes	1.33	J	Yes	1.36
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.322	J	Yes	0.331	J	Yes	1.09	J	Yes	1.23	J	Yes	1.37

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	TEQ-Bird (ND=DL) ng/kg		Dioxin TEQ-Bird (KM) ng/kg			Dioxin TEQ-Fish ng/kg			Dioxin TEQ-Fish (ND=0.5DL) ng/kg			Dioxin TEQ-Fish (N ng/kg	
								Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	JF	Yes	24.9	J	Yes	9.38	JF	Yes	10	JF	Yes	10.7	JF
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	JF	Yes	3.94	J	Yes	1.28	JF	Yes	1.96	JF	Yes	2.63	JF
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	J	Yes	4.62		Yes	1.21	J	Yes	1.62	J	Yes	2.03	J
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	JF	Yes	411	J	Yes	102	JF	Yes	102	JF	Yes	102	JF
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	J	Yes	5.37		Yes	0.738	J	Yes	1.48	J	Yes	2.23	J
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	JF	Yes	44.4	J	Yes	30.8	JF	Yes	31.7	JF	Yes	32.7	JF
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	J	Yes	24.5		Yes	12.6	J	Yes	12.6	J	Yes	12.6	J
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	J	Yes	8.66	J	Yes	4.46	J	Yes	4.47	J	Yes	4.48	J
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	J	Yes	14.3		Yes	6.82	J	Yes	6.82	J	Yes	6.83	J
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	J	Yes	17.4		Yes	7.08	J	Yes	7.12	J	Yes	7.15	J
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	J	Yes	58.8	J	Yes	32.5	J	Yes	32.5	J	Yes	32.5	J
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	J	Yes	7.39	J	Yes	3.83	J	Yes	3.84	J	Yes	3.85	J
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	J	Yes	12.3	J	Yes	6.21	J	Yes	6.22	J	Yes	6.24	J
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	J	Yes	7.36	J	Yes	4.55	J	Yes	4.57	J	Yes	4.58	J
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	J	Yes	6.14	J	Yes	3.19	J	Yes	3.21	J	Yes	3.23	J
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	J	Yes	11.6	J	Yes	6.44	J	Yes	6.44	J	Yes	6.45	J
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	J	Yes	4.5	J	Yes	2.31	J	Yes	2.32	J	Yes	2.32	J
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	J	Yes	6.01	J	Yes	2.97	J	Yes	2.98	J	Yes	2.98	J
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	J	Yes	2.54	J	Yes	1.62	J	Yes	1.62	J	Yes	1.63	J
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	J	Yes	109	J	Yes	63.7	J	Yes	63.7	J	Yes	63.7	J
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	J	Yes	12.7		Yes	8.52	J	Yes	8.53	J	Yes	8.54	J
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	J	Yes	3.99	J	Yes	2.07	J	Yes	2.08	J	Yes	2.09	J
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	J	Yes	5.51	J	Yes	3.07	J	Yes	3.08	J	Yes	3.08	J
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	J	Yes	27.1	J	Yes	12.9	J	Yes	13.3	J	Yes	13.6	J
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	J	Yes	13.6		Yes	5.58	J	Yes	5.58	J	Yes	5.59	J
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	J	Yes	4.73	J	Yes	2.62	J	Yes	2.63	J	Yes	2.63	J
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	J	Yes	35.7	J	Yes	14.5	J	Yes	14.5	J	Yes	14.5	J
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	J	Yes	7.49	J	Yes	3.12	J	Yes	3.28	J	Yes	3.45	J
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	J	Yes	2.51	J	Yes	0.957	J	Yes	1.18	J	Yes	1.41	J
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	J	Yes	2.31	J	Yes	1.14	J	Yes	1.21	J	Yes	1.28	J
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	J	Yes	16.4	J	Yes	10.4	J	Yes	10.4	J	Yes	10.4	J
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	J	Yes	3.11	J	Yes	1.92	J	Yes	1.92	J	Yes	1.92	J
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	J	Yes	34	J	Yes	19.9	J	Yes	19.9	J	Yes	19.9	J
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	J	Yes	140	J	Yes	77.6	J	Yes	77.6	J	Yes	77.6	J
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	J	Yes	1.77	J	Yes	1.01	J	Yes	1.08	J	Yes	1.16	J
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	J	Yes	32.9	J	Yes	10.9	J	Yes	10.9	J	Yes	10.9	J
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	J	Yes	2.79	J	Yes	1.73	J	Yes	1.74	J	Yes	1.74	J
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	J	Yes	1.06	J	Yes	0.418	J	Yes	0.576	J	Yes	0.734	J
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	J	Yes	32.4	J	Yes	22.1	J	Yes	22.1	J	Yes	22.1	J
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	J	Yes	3.76	J	Yes	2.16	J	Yes	2.17	J	Yes	2.18	J
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	J	Yes	1.18	J	Yes	0.832	J	Yes	0.93	J	Yes	1.03	J
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	J	Yes	6.34	J	Yes	4.8	J	Yes	4.81	J	Yes	4.83	J
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	J	Yes	6.36		Yes	3.99	J	Yes	3.99	J	Yes	3.99	J
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	J	Yes	0.977	J	Yes	0.498	J	Yes	0.542	J	Yes	0.587	J
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	J	Yes	1.32	J	Yes	0.579	J	Yes	0.61	J	Yes	0.64	J
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	J	Yes	1.12	J	Yes	0.417	J	Yes	0.584	J	Yes	0.752	J

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	D=DL)	Dioxin TEQ-Fish (KM)			Dioxin TEQ-Mammal			Dioxin TEQ-Mammal (ND=0.5DL)			Dioxin TEQ-Mammal (ND=DL)		
									ng/kg			ng/kg			ng/kg			ng/kg		
								Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	Yes	9.88	J	Yes	15.2	JF	Yes	15.8	JF	Yes	16.4	JF	Yes
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	Yes	1.96	J	Yes	2.12	JF	Yes	2.7	JF	Yes	3.28	JF	Yes
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	Yes	1.41	J	Yes	1.89	J	Yes	2.3	J	Yes	2.7	J	Yes
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	Yes	102	J	Yes	146	JF	Yes	146	JF	Yes	146	JF	Yes
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	Yes	1.52	J	Yes	1.28	J	Yes	1.83	J	Yes	2.37	J	Yes
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	Yes	31.3	J	Yes	34.5	JF	Yes	35.3	JF	Yes	36.1	JF	Yes
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	Yes	12.6	J	Yes	13.9	J	Yes	13.9	J	Yes	13.9	J	Yes
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	Yes	4.47	J	Yes	4.58	J	Yes	4.58	J	Yes	4.59	J	Yes
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	Yes	6.83	J	Yes	7.47	J	Yes	7.48	J	Yes	7.48	J	Yes
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	Yes	7.11		Yes	9.58	J	Yes	9.61	J	Yes	9.63	J	Yes
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	Yes	32.5	J	Yes	27.3	J	Yes	27.3	J	Yes	27.3	J	Yes
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	Yes	3.84	J	Yes	3.78	J	Yes	3.79	J	Yes	3.79	J	Yes
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	Yes	6.23	J	Yes	5.92	J	Yes	5.93	J	Yes	5.94	J	Yes
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	4.57	J	Yes	5.57	J	Yes	5.58	J	Yes	5.6	J	Yes
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	3.21	J	Yes	3.34	J	Yes	3.36	J	Yes	3.37	J	Yes
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	6.45	J	Yes	8.9	J	Yes	8.91	J	Yes	8.91	J	Yes
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	2.32	J	Yes	2.2	J	Yes	2.21	J	Yes	2.21	J	Yes
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	Yes	2.98	J	Yes	3.25	J	Yes	3.25	J	Yes	3.26	J	Yes
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	Yes	1.62	J	Yes	1.7	J	Yes	1.7	J	Yes	1.71	J	Yes
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	Yes	63.7	J	Yes	54.8	J	Yes	54.8	J	Yes	54.8	J	Yes
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	Yes	8.52		Yes	13.9	J	Yes	13.9	J	Yes	13.9	J	Yes
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	Yes	2.08	J	Yes	1.87	J	Yes	1.88	J	Yes	1.88	J	Yes
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	Yes	3.08	J	Yes	3.09	J	Yes	3.09	J	Yes	3.1	J	Yes
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	Yes	13.1	J	Yes	12.1	J	Yes	12.4	J	Yes	12.7	J	Yes
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	Yes	5.58		Yes	5.06	J	Yes	5.07	J	Yes	5.07	J	Yes
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	Yes	2.63	J	Yes	2.69	J	Yes	2.69	J	Yes	2.7	J	Yes
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	14.5	J	Yes	13.8	J	Yes	13.8	J	Yes	13.8	J	Yes
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	3.21	J	Yes	3.25	J	Yes	3.42	J	Yes	3.58	J	Yes
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	1.04	J	Yes	0.995	J	Yes	1.22	J	Yes	1.45	J	Yes
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	1.18	J	Yes	1.22	J	Yes	1.29	J	Yes	1.36	J	Yes
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	10.4	J	Yes	13.7	J	Yes	13.7	J	Yes	13.7	J	Yes
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	1.92	J	Yes	2.13	J	Yes	2.13	J	Yes	2.13	J	Yes
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	19.9	J	Yes	21.1	J	Yes	21.1	J	Yes	21.1	J	Yes
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	77.6	J	Yes	63.1	J	Yes	63.1	J	Yes	63.1	J	Yes
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	1.04	J	Yes	0.995	J	Yes	1.07	J	Yes	1.14	J	Yes
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	10.9	J	Yes	10.6	J	Yes	10.6	J	Yes	10.6	J	Yes
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	1.74	J	Yes	1.94	J	Yes	1.95	J	Yes	1.95	J	Yes
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	0.464	J	Yes	0.552	J	Yes	0.684	J	Yes	0.817	J	Yes
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	22.1	J	Yes	26.6	J	Yes	26.6	J	Yes	26.6	J	Yes
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	2.17	J	Yes	2.1	J	Yes	2.1	J	Yes	2.11	J	Yes
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	0.875	J	Yes	0.855	J	Yes	0.952	J	Yes	1.05	J	Yes
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	4.8	J	Yes	5.62	J	Yes	5.63	J	Yes	5.64	J	Yes
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	3.99	J	Yes	4.6	J	Yes	4.6	J	Yes	4.6	J	Yes
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	0.514	J	Yes	0.505	J	Yes	0.55	J	Yes	0.594	J	Yes
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	0.594	J	Yes	0.53	J	Yes	0.56	J	Yes	0.591	J	Yes
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	0.46	J	Yes	0.476	J	Yes	0.617	J	Yes	0.759	J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Dioxin TEQ-Mammal (KM) ng/kg			Total TEQ-Bird ng/kg			Total TEQ-Bird (ND=0.5DL) ng/kg			Total TEQ-Bird (ND=DL) ng/kg			Tota
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	15.6	J	Yes	111	JF	Yes	113	JF	Yes	115	JF	Yes	111
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	2.49	J	Yes	24.6	JF	Yes	25.8	JF	Yes	27	JF	Yes	24.9
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	2.14	J	Yes	19.2	J	Yes	20.1	J	Yes	21	J	Yes	19.4
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	146	J	Yes	1290	JF	Yes	1310	JF	Yes	1340	JF	Yes	1290
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	1.48	J	Yes	20.8	J	Yes	23.8	J	Yes	26.8	J	Yes	21
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	35	J	Yes	116	JF	Yes	119	JF	Yes	121	JF	Yes	117
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	13.9		Yes	220	J	Yes	220	J	Yes	220	J	Yes	220
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	4.59	J	Yes	34.8	J	Yes	34.8	J	Yes	34.8	J	Yes	34.8
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	7.48		Yes	56.3	J	Yes	56.3	J	Yes	56.3	J	Yes	56.3
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	9.61		Yes	581	J	Yes	581	J	Yes	581	J	Yes	581
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	27.3	J	Yes	179	J	Yes	179	J	Yes	179	J	Yes	179
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	3.78	J	Yes	36.1	J	Yes	36.1	J	Yes	36.1	J	Yes	36.1
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	5.93	J	Yes	27.2	J	Yes	27.2	J	Yes	27.2	J	Yes	27.2
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	5.59	J	Yes	24	J	Yes	24	J	Yes	24	J	Yes	24
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	3.35	J	Yes	27.5	J	Yes	27.5	J	Yes	27.5	J	Yes	27.5
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	8.91	J	Yes	59.7	J	Yes	59.7	J	Yes	59.7	J	Yes	59.7
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	2.21	J	Yes	20.4	J	Yes	20.4	J	Yes	20.4	J	Yes	20.4
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	3.25	J	Yes	23.9	J	Yes	23.9	J	Yes	23.9	J	Yes	23.9
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	1.71	J	Yes	9	J	Yes	9	J	Yes	9.01	J	Yes	9
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	54.8	J	Yes	214	J	Yes	215	J	Yes	215	J	Yes	214
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	13.9		Yes	53.5	J	Yes	53.5	J	Yes	53.5	J	Yes	53.5
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	1.87	J	Yes	15.6	J	Yes	15.6	J	Yes	15.7	J	Yes	15.6
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	3.1	J	Yes	25.2	J	Yes	25.3	J	Yes	25.3	J	Yes	25.2
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	12.4	J	Yes	53.9	J	Yes	54.2	J	Yes	54.6	J	Yes	54
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	5.07		Yes	28.5	J	Yes	28.5	J	Yes	28.5	J	Yes	28.5
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	2.7	J	Yes	23.7	J	Yes	23.7	J	Yes	23.7	J	Yes	23.7
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	13.8	J	Yes	39.1	J	Yes	41	J	Yes	42.8	J	Yes	39.7
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	3.38	J	Yes	29.4	J	Yes	29.6	J	Yes	29.7	J	Yes	29.5
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	1.1	J	Yes	11	J	Yes	11.2	J	Yes	11.5	J	Yes	11
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	1.27	J	Yes	11.4	J	Yes	11.5	J	Yes	11.6	J	Yes	11.4
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	13.7	J	Yes	30	J	Yes	30	J	Yes	30	J	Yes	30
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	2.13	J	Yes	11.3	J	Yes	11.3	J	Yes	11.3	J	Yes	11.3
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	21.1	J	Yes	93.8	J	Yes	93.8	J	Yes	93.8	J	Yes	93.8
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	63.1	J	Yes	530	J	Yes	530	J	Yes	530	J	Yes	530
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	1.04	J	Yes	5.44	J	Yes	5.51	J	Yes	5.58	J	Yes	5.46
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	10.6	J	Yes	37.8	J	Yes	38.4	J	Yes	39.1	J	Yes	38
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	1.95	J	Yes	9.95	J	Yes	9.95	J	Yes	9.96	J	Yes	9.95
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.607	J	Yes	3.36	J	Yes	3.49	J	Yes	3.62	J	Yes	3.4
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	26.6	J	Yes	97.9	J	Yes	97.9	J	Yes	97.9	J	Yes	97.9
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	2.1	J	Yes	11.8	J	Yes	11.9	J	Yes	11.9	J	Yes	11.9
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.92	J	Yes	2.91	J	Yes	3.01	J	Yes	3.11	J	Yes	2.94
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	5.62	J	Yes	13.2	J	Yes	13.2	J	Yes	13.2	J	Yes	13.2
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	4.6	J	Yes	52.4	J	Yes	52.4	J	Yes	52.4	J	Yes	52.4
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.527	J	Yes	4.48	J	Yes	4.53	J	Yes	4.57	J	Yes	4.5
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.552	J	Yes	9.01	J	Yes	9.04	J	Yes	9.07	J	Yes	9.03
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.527	J	Yes	4.53	J	Yes	4.67	J	Yes	4.81	J	Yes	4.56

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	al TEQ-Bird (KM) ng/kg		Total TEQ-Fish ng/kg			Total TEQ-Fish (ND=0.5DL) ng/kg			Total TEQ-Fish (ND=DL) ng/kg			Total TEQ-Fish (ng/kg	
								Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes		Yes	9.88	JF	Yes	10.5	JF	Yes	11.2	JF	Yes	10.1	J
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes		Yes	1.4	JF	Yes	2.08	JF	Yes	2.76	JF	Yes	2	J
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes		Yes	1.32	J	Yes	1.73	J	Yes	2.15	J	Yes	1.44	J
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	J	Yes	104	JF	Yes	105	JF	Yes	106	JF	Yes	104	J
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	J	Yes	0.789	J	Yes	1.59	J	Yes	2.39	J	Yes	1.47	J
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	J	Yes	31.4	JF	Yes	32.3	JF	Yes	33.3	JF	Yes	31.7	J
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	J	Yes	14.1	J	Yes	14.1	J	Yes	14.1	J	Yes	14.1	J
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	J	Yes	4.59	J	Yes	4.6	J	Yes	4.6	J	Yes	4.59	J
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes		Yes	7	J	Yes	7.01	J	Yes	7.02	J	Yes	7.01	J
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	J	Yes	8.84	J	Yes	8.88	J	Yes	8.91	J	Yes	8.86	
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes		Yes	32.9	J	Yes	32.9	J	Yes	32.9	J	Yes	32.9	J
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes		Yes	3.98	J	Yes	3.98	J	Yes	3.99	J	Yes	3.98	J
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes		Yes	6.3	J	Yes	6.31	J	Yes	6.32	J	Yes	6.3	J
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes		Yes	4.64	J	Yes	4.65	J	Yes	4.66	J	Yes	4.64	J
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes		Yes	3.31	J	Yes	3.33	J	Yes	3.34	J	Yes	3.32	J
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes		Yes	6.66	J	Yes	6.67	J	Yes	6.68	J	Yes	6.66	J
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes		Yes	2.4	J	Yes	2.4	J	Yes	2.41	J	Yes	2.4	J
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes		Yes	3.12	J	Yes	3.12	J	Yes	3.12	J	Yes	3.12	J
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes		Yes	1.67	J	Yes	1.67	J	Yes	1.67	J	Yes	1.67	J
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	J	Yes	64.3	J	Yes	64.3	J	Yes	64.3	J	Yes	64.3	J
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes		Yes	8.8	J	Yes	8.82	J	Yes	8.83	J	Yes	8.81	
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes		Yes	2.13	J	Yes	2.14	J	Yes	2.15	J	Yes	2.14	J
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	J	Yes	3.18	J	Yes	3.19	J	Yes	3.19	J	Yes	3.18	J
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	J	Yes	13.1	J	Yes	13.4	J	Yes	13.8	J	Yes	13.2	J
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes		Yes	5.72	J	Yes	5.72	J	Yes	5.73	J	Yes	5.72	
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes		Yes	2.77	J	Yes	2.78	J	Yes	2.78	J	Yes	2.78	J
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	J	Yes	14.5	J	Yes	14.6	J	Yes	14.7	J	Yes	14.5	J
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	J	Yes	3.23	J	Yes	3.4	J	Yes	3.57	J	Yes	3.29	J
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes		Yes	1	J	Yes	1.23	J	Yes	1.45	J	Yes	1.05	J
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes		Yes	1.19	J	Yes	1.26	J	Yes	1.33	J	Yes	1.21	J
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No		Yes	10.5	J	Yes	10.5	J	Yes	10.5	J	Yes	10.5	J
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No		Yes	1.96	J	Yes	1.96	J	Yes	1.96	J	Yes	1.96	J
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	J	Yes	20.3	J	Yes	20.3	J	Yes	20.3	J	Yes	20.3	J
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	J	Yes	79	J	Yes	79	J	Yes	79	J	Yes	79	J
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No		Yes	1.03	J	Yes	1.1	J	Yes	1.18	J	Yes	1.05	J
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	J	Yes	10.9	J	Yes	10.9	J	Yes	11	J	Yes	10.9	J
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No		Yes	1.78	J	Yes	1.78	J	Yes	1.79	J	Yes	1.78	J
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No		Yes	0.432	J	Yes	0.59	J	Yes	0.748	J	Yes	0.458	J
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	J	Yes	22.5	J	Yes	22.5	J	Yes	22.5	J	Yes	22.5	J
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No		Yes	2.22	J	Yes	2.22	J	Yes	2.23	J	Yes	2.22	J
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No		Yes	0.843	J	Yes	0.941	J	Yes	1.04	J	Yes	0.866	J
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No		Yes	4.84	J	Yes	4.86	J	Yes	4.87	J	Yes	4.85	J
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		Yes	4.18	J	Yes	4.18	J	Yes	4.18	J	Yes	4.18	J
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No		Yes	0.519	J	Yes	0.563	J	Yes	0.608	J	Yes	0.529	J
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No		Yes	0.714	J	Yes	0.744	J	Yes	0.775	J	Yes	0.728	J
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No		Yes	0.441	J	Yes	0.609	J	Yes	0.776	J	Yes	0.469	J

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	KM) Detect	Total TEQ-Mammal ng/kg Value	Qual	Detect	Total TEQ-Mammal (ND=0.5DL) ng/kg Value	Qual	Detect
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	Yes	24.4	JF	Yes	25.1	JF	Yes
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	Yes	3.5	JF	Yes	4.21	JF	Yes
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	Yes	3.37	J	Yes	3.93	J	Yes
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	Yes	151	JF	Yes	172	JF	Yes
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	Yes	1.44	J	Yes	3.4	J	Yes
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	Yes	52	JF	Yes	52.8	JF	Yes
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	Yes	32.4	J	Yes	32.5	J	Yes
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	Yes	5.78	J	Yes	5.83	J	Yes
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	Yes	9	J	Yes	9.08	J	Yes
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	Yes	21.6	J	Yes	21.7	J	Yes
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	Yes	29.9	J	Yes	30	J	Yes
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	Yes	5.23	J	Yes	5.27	J	Yes
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	Yes	6.81	J	Yes	6.85	J	Yes
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	6.39	J	Yes	6.42	J	Yes
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	4.56	J	Yes	4.61	J	Yes
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	10.9	J	Yes	11	J	Yes
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	3.06	J	Yes	3.08	J	Yes
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	Yes	4.6	J	Yes	4.66	J	Yes
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	Yes	2.27	J	Yes	2.3	J	Yes
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	Yes	63	J	Yes	63.2	J	Yes
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	Yes	17.9	J	Yes	18	J	Yes
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	Yes	2.51	J	Yes	2.55	J	Yes
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	Yes	4.23	J	Yes	4.27	J	Yes
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	Yes	13.7	J	Yes	14.3	J	Yes
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	Yes	7.03	J	Yes	7.07	J	Yes
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	Yes	4.36	J	Yes	4.42	J	Yes
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	13.8	J	Yes	15.3	J	Yes
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	4.42	J	Yes	4.61	J	Yes
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	1.44	J	Yes	1.67	J	Yes
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	1.66	J	Yes	1.73	J	Yes
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	14.4	J	Yes	14.4	J	Yes
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	2.64	J	Yes	2.65	J	Yes
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	25.3	J	Yes	25.5	J	Yes
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	75.1	J	Yes	75.2	J	Yes
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	1.21	J	Yes	1.29	J	Yes
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	10.7	J	Yes	11.2	J	Yes
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	2.44	J	Yes	2.45	J	Yes
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	0.698	J	Yes	0.834	J	Yes
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	31.6	J	Yes	31.7	J	Yes
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	2.74	J	Yes	2.76	J	Yes
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	0.977	J	Yes	1.08	J	Yes
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	6.11	J	Yes	6.14	J	Yes
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	6.34	J	Yes	6.37	J	Yes
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	0.732	J	Yes	0.782	J	Yes
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	2.01	J	Yes	2.05	J	Yes
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	0.77	J	Yes	0.917	J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Total TEQ-Mammal (ND=DL) ng/kg			Total TEQ-Mammal (KM) ng/kg			Total HpCDD ng/kg			Total HxCDD ng/kg			
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	25.7	JF	Yes	24.7	J	Yes	682		Yes	65		Yes	12.5
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	4.91	JF	Yes	3.79	J	Yes	82		Yes	15.1		Yes	4.75
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	4.5	J	Yes	3.59	J	Yes	83.9		Yes	8.79	J	Yes	0.69
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	194	JF	Yes	157	J	Yes	3360	J	Yes	459	J	Yes	86.8
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	5.36	J	Yes	3.56	J	Yes	30.8		Yes	5.52	J	Yes	1.65
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	53.7	JF	Yes	52.2	J	Yes	820	J	Yes	138	J	Yes	42.7
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	32.6	J	Yes	32.4	J	Yes	414		Yes	66.3	J	Yes	20.9
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	5.87	J	Yes	5.8		Yes	119		Yes	19.5	EMPC-J	Yes	6.2
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	9.16	J	Yes	9.05		Yes	244		Yes	45.1	EMPC-J	Yes	10.6
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	21.8	J	Yes	21.7		Yes	289		Yes	48.1	J	Yes	19
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	30.1	J	Yes	30	J	Yes	388		Yes	68.7	J	Yes	24.9
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	5.3	J	Yes	5.25	J	Yes	99.8		Yes	18.3	EMPC-J	Yes	5.5
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	6.89	J	Yes	6.83	J	Yes	120		Yes	20.4	EMPC-J	Yes	5.58
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	6.44	J	Yes	6.41	J	Yes	236		Yes	41.4	EMPC-J	Yes	7.49
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	4.65	J	Yes	4.58	J	Yes	110		Yes	15.9	EMPC-J	Yes	3.89
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	11	J	Yes	10.9	J	Yes	566	J	Yes	41.4	J	Yes	8.32
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	3.1	J	Yes	3.07	J	Yes	36.6		Yes	8.43	EMPC-J	Yes	2.96
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	4.71	J	Yes	4.63	J	Yes	97.1		Yes	15.3	EMPC-J	Yes	4.33
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	2.32	J	Yes	2.28	J	Yes	46.3	J	Yes	9.79	EMPC-J	Yes	2.57
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	63.4	J	Yes	63.1	J	Yes	732	J	Yes	146	J	Yes	50.5
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	18.1	J	Yes	17.9		Yes	783	J	Yes	85.7	J	Yes	9.67
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	2.59	J	Yes	2.53	J	Yes	29.9	J	Yes	7.94	EMPC-J	Yes	3.99
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	4.31	J	Yes	4.25	J	Yes	88.8	J	Yes	15.5	EMPC-J	Yes	4.83
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	14.9	J	Yes	14	J	Yes	198	J	Yes	37.2	EMPC-J	Yes	17.7
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	7.11	J	Yes	7.05		Yes	77.1		Yes	15.3	EMPC-J	Yes	4.25
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	4.48	J	Yes	4.39	J	Yes	73.8		Yes	12.3	EMPC-J	Yes	3.53
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	16.7	J	Yes	14.4	J	Yes	135	J	Yes	38.6	EMPC-J	Yes	22.4
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	4.8	J	Yes	4.51	J	Yes	86		Yes	17.6	EMPC-J	Yes	5.26
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	1.9	J	Yes	1.51	J	Yes	28.8		Yes	5.39	EMPC-J	Yes	0.877
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	1.81	J	Yes	1.69	J	Yes	39.9		Yes	6.61	EMPC-J	Yes	1.63
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	14.4	J	Yes	14.4	J	Yes	563		Yes	75.6	EMPC-J	Yes	12.9
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	2.66	J	Yes	2.65	J	Yes	71.1	J	Yes	11	EMPC-J	Yes	2.71
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	25.6	J	Yes	25.4	J	Yes	612	J	Yes	101	J	Yes	28.1
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	75.3	J	Yes	75.1	J	Yes	719	J	Yes	194	J	Yes	75.8
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	1.37	J	Yes	1.24	J	Yes	27.3	J	Yes	5.06	EMPC-J	Yes	1.35
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	11.7	J	Yes	10.9	J	Yes	108	J	Yes	24.6	EMPC-J	Yes	12.2
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	2.47	J	Yes	2.45	J	Yes	64.6	J	Yes	11.6	EMPC-J	Yes	2.81
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.969	J	Yes	0.739	J	Yes	48.6	J	Yes	4.75	EMPC-J	Yes	0.507
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	31.9	J	Yes	31.7	J	Yes	1270	J	Yes	184	J	Yes	36.8
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	2.77	J	Yes	2.75	J	Yes	51.8	J	Yes	9.34	EMPC-J	Yes	2.01
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	1.18	J	Yes	1.02	J	Yes	14	J	Yes	3.02	EMPC-J	Yes	0.476
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	6.17	J	Yes	6.12	J	Yes	111	J	Yes	41.9	J	Yes	19.2
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	6.39	J	Yes	6.35	J	Yes	168	J	Yes	26.6	J	Yes	7.75
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.831	J	Yes	0.749	J	Yes	14.6	J	Yes	2.62	EMPC-J	Yes	0.855
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	2.1	J	Yes	2.04		Yes	9.62	J	Yes	2.23	J	Yes	0.795
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	1.06	J	Yes	0.808	J	Yes	15.2	J	Yes	2.99	J	Yes	1.42

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Total PeCDD ng/kg Qual	Total PeCDD ng/kg Detect
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	J	Yes
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	J	Yes
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	J	Yes
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	J	Yes
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	J	Yes
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	J	Yes
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	J	Yes
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	EMPC-J	Yes
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	EMPC-J	Yes
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	EMPC-J	Yes
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes		Yes
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	EMPC-J	Yes
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	EMPC-J	Yes
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	EMPC-J	Yes
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	EMPC-J	Yes
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	J	Yes
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	EMPC-J	Yes
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	EMPC-J	Yes
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	EMPC-J	Yes
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	J	Yes
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	EMPC-J	Yes
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	EMPC-J	Yes
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	EMPC-J	Yes
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	EMPC-J	Yes
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	EMPC-J	Yes
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	EMPC-J	Yes
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	EMPC-J	Yes
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	EMPC-J	Yes
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes		Yes
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	EMPC-J	Yes
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No		Yes
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	EMPC-J	Yes
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	EMPC-J	Yes
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	J	Yes
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	J	Yes
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	EMPC-J	Yes
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	EMPC-J	Yes
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	EMPC-J	Yes
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	J	Yes
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	J	Yes
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	EMPC-J	Yes
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	EMPC-J	Yes
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	EMPC-J	Yes
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	EMPC-J	Yes
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	EMPC-J	Yes
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	EMPC-J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Total TCDD ng/kg			Total HpCDF ng/kg			Total HxCDF ng/kg			Total PeCDF ng/kg			
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	27.6		Yes	247		Yes	265		Yes	327		Yes	82.1
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	9.41		Yes	30.3		Yes	26.8		Yes	26		Yes	19.4
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	5.12		Yes	31.8		Yes	21.8		Yes	21.2		Yes	11.1
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	813	J	Yes	1370	J	Yes	384	J	Yes	614	J	Yes	767
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	4.04		Yes	13	J	Yes	19.3		Yes	15.6	J	Yes	19.7
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	21.1	J	Yes	856	J	Yes	706	J	Yes	636	J	Yes	358
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	44.2	J	Yes	152		Yes	117	J	Yes	115	J	Yes	96.8
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	13.9	EMPC-J	Yes	50.5		Yes	38.3	EMPC-J	Yes	43.3	EMPC-J	Yes	34.9
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	24.2	EMPC-J	Yes	90.5	EMPC-J	Yes	62.8	J	Yes	61.7	J	Yes	51.9
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	44.9	EMPC-J	Yes	110		Yes	106	J	Yes	109	J	Yes	95
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	24.6	EMPC-J	Yes	476		Yes	358	J	Yes	492	J	Yes	202
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	10.3	EMPC-J	Yes	28.5	EMPC-J	Yes	32.1	J	Yes	38.5	EMPC-J	Yes	28.3
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	12.3	EMPC-J	Yes	64.1		Yes	56	J	Yes	56.6	EMPC-J	Yes	51.2
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	9.02	EMPC-J	Yes	72.7	J	Yes	37.6	J	Yes	29.7	EMPC-J	Yes	21.7
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	7.36	EMPC-J	Yes	44.3	EMPC-J	Yes	26.7	EMPC-J	Yes	28.9	EMPC-J	Yes	28
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	16.6	J	Yes	114	J	Yes	66.1	J	Yes	56	J	Yes	43
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	7.18		Yes	19.1	J	Yes	18.6	EMPC-J	Yes	23.9	J	Yes	20.1
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	8.84	EMPC-J	Yes	30	EMPC-J	Yes	26.3	EMPC-J	Yes	29	EMPC-J	Yes	25.1
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	4.16		Yes	21.8		Yes	16.2	J	Yes	14.9		Yes	10
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	28.6	EMPC-J	Yes	847	J	Yes	1030	J	Yes	865	J	Yes	370
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	12.2	EMPC-J	Yes	142		Yes	124	EMPC-J	Yes	61.7	EMPC-J	Yes	33.4
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	6.53	EMPC-J	Yes	13.3		Yes	16.2	EMPC-J	Yes	20.9	EMPC-J	Yes	17.1
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	9.9	EMPC-J	Yes	32.2	J	Yes	25.6	EMPC-J	Yes	32.2	EMPC-J	Yes	26.6
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	18.4	EMPC-J	Yes	118	J	Yes	94.3	EMPC-J	Yes	97.6	EMPC-J	Yes	103
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	7.11	EMPC-J	Yes	32.5	EMPC-J	Yes	36.1	EMPC-J	Yes	56.2	EMPC-J	Yes	55.9
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	6.74	EMPC-J	Yes	35.9	J	Yes	24	J	Yes	27.1	EMPC-J	Yes	18.2
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	21	EMPC-J	Yes	78.4	J	Yes	88.9	EMPC-J	Yes	108	EMPC-J	Yes	160
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	13.2		Yes	30.9	EMPC-J	Yes	26.7	EMPC-J	Yes	32.1	EMPC-J	Yes	34.4
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	3.75		Yes	12.4	J	Yes	11.8	EMPC-J	Yes	12.2	EMPC-J	Yes	10.6
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	3.93		Yes	14.8	EMPC-J	Yes	11.4	EMPC-J	Yes	13.3	EMPC-J	Yes	11.4
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	8.75	EMPC-J	Yes	709	EMPC-J	Yes	183	EMPC-J	Yes	85.7	J	Yes	45.5
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	4.59	EMPC-J	Yes	47.5	J	Yes	21	EMPC-J	Yes	15.5	EMPC-J	Yes	11.4
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	48	EMPC-J	Yes	274	J	Yes	182	J	Yes	143	EMPC-J	Yes	112
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	63.3	EMPC-J	Yes	764	J	Yes	809	J	Yes	1220	J	Yes	406
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	1.89	EMPC-J	Yes	10.1	EMPC-J	Yes	8.69	EMPC-J	Yes	10.9	EMPC-J	Yes	5.03
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	10.7	EMPC-J	Yes	91.1	J	Yes	70.2	EMPC-J	Yes	71.2	EMPC-J	Yes	92.9
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	4.23	EMPC-J	Yes	22.8	EMPC-J	Yes	16.3	J	Yes	16.3	EMPC-J	Yes	10.2
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	1.52	EMPC-J	Yes	5.55	J	Yes	4.33	EMPC-J	Yes	6.47	EMPC-J	Yes	5.78
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	52.4	EMPC-J	Yes	447	J	Yes	246	J	Yes	161	J	Yes	112
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	4.32	EMPC-J	Yes	20	J	Yes	20.8	EMPC-J	Yes	22.8	EMPC-J	Yes	13.3
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	1.14	EMPC-J	Yes	69.4	J	Yes	20.3	J	Yes	4.14	EMPC-J	Yes	2.46
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	14	EMPC-J	Yes	11	J	Yes	10.9	J	Yes	18.2	EMPC-J	Yes	13.7
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	13.4	EMPC-J	Yes	62	J	Yes	37.6	EMPC-J	Yes	33.4	EMPC-J	Yes	22.6
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	1.98	EMPC-J	Yes	4.6	J	Yes	3.7	EMPC-J	Yes	5.8	EMPC-J	Yes	5.42
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	1.47		Yes	3.96	J	Yes	4.18	EMPC-J	Yes	6.51	EMPC-J	Yes	5.93
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	1.76		Yes	5.22	J	Yes	4.92	EMPC-J	Yes	6.98	EMPC-J	Yes	5.84

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Total TCDF ng/kg Qual	Total TCDF ng/kg Detect
2008 LRC P	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes		Yes
2008 LRC P	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes		Yes
2008 LRC P	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes		Yes
2008 LRC P	08A-101	17.66	594378.09	747689.88	02-Oct-08	08A-0101-C1AS	Yes	J	Yes
2008 LRC P	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes		Yes
2008 LRC P	08A-104	18.48	594047.34	751437.42	29-Sep-08	08A-0104-C1AS	Yes	J	Yes
2012 Benthi	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	J	Yes
2012 Benthi	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	EMPC-J	Yes
2012 Benthi	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	EMPC-J	Yes
2012 Benthi	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes		Yes
2012 Benthi	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes		Yes
2012 Benthi	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	EMPC-J	Yes
2012 Benthi	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	EMPC-J	Yes
2012 Benthi	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	EMPC-J	Yes
2012 Benthi	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	EMPC-J	Yes
2012 Benthi	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	J	Yes
2012 Benthi	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	EMPC-J	Yes
2012 Benthi	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	EMPC-J	Yes
2012 Benthi	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes		Yes
2012 Benthi	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	J	Yes
2012 Benthi	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	EMPC-J	Yes
2012 Benthi	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	EMPC-J	Yes
2012 Benthi	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	EMPC-J	Yes
2012 Benthi	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	EMPC-J	Yes
2012 Benthi	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	EMPC-J	Yes
2012 Benthi	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	EMPC-J	Yes
2012 Benthi	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	EMPC-J	Yes
2012 Benthi	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	EMPC-J	Yes
2012 Benthi	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	EMPC-J	Yes
2012 Benthi	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	EMPC-J	Yes
2012 Benthi	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	EMPC-J	Yes
2012 Benthi	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	EMPC-J	Yes
2012 Benthi	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	J	Yes
2012 Benthi	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	EMPC-J	Yes
2012 Benthi	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	EMPC-J	Yes
2012 Benthi	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	EMPC-J	Yes
2012 Benthi	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	EMPC-J	Yes
2012 Benthi	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	EMPC-J	Yes
2012 Benthi	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	EMPC-J	Yes
2012 Benthi	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	EMPC-J	Yes
2012 Benthi	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	EMPC-J	Yes
2012 Benthi	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	EMPC-J	Yes
2012 Benthi	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	EMPC-J	Yes
2012 Benthi	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	EMPC-J	Yes
2012 Benthi	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	EMPC-J	Yes
2012 Benthi	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	EMPC-J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Qualifier	Definition
J	estimated concentration
U	not detected at given concentration
N	tentative identification
EMPC	estimated maximum possible concentration
Z	estimated maximum possible concentration
R	rejected
T(#)	partial sum where the number in parentheses indicates the number of constituent parameters missing from the sum
C	data refers to the first of two or more co-eluting congeners
C###	number noted references the first of the co-eluting congeners
F	value adjusted per USEPA request

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	SQT station	1,1'-Biphenyl µg/kg			2,2'-Oxybis(1-chloropropa µg/kg			2,4,5-Trichlorophenol µg/kg			2,4,6-Trichlorophenol µg/kg		
									Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	No	3400	UJ	No	3400	UJ	No	3400	UJ	No	3400	UJ	No
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	No	170	U	No	170	U	No	170	U	No	170	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	No	170	U	No	170	U	No	170	U	No	170	U	No
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	No	29	J	Yes	170	U	No	170	U	No	170	U	No
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	No	8500	UJ	No	8500	UJ	No	8500	UJ	No	8500	UJ	No
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	No	57	J	Yes	370	UJ	No	370	UJ	No	370	UJ	No
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	No	224	J	Yes	561	U	No	561	U	No	561	U	No
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	No	476	U	No	476	U	No	476	U	No	476	U	No
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	No	2630	U	No	2630	U	No	2630	U	No	2630	U	No
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	No	546	U	No	546	U	No	546	U	No	546	U	No
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	No	623	U	No	623	U	No	623	U	No	623	U	No
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	No	427	U	No	427	U	No	427	U	No	427	U	No
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	No	492	U	No	492	U	No	492	U	No	492	U	No
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	510	U	No	510	U	No	510	U	No	510	U	No
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	2180	U	No	2180	U	No	2180	U	No	2180	U	No
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	999	U	No	999	U	No	999	U	No	999	U	No
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	1980	U	No	1980	U	No	1980	U	No	1980	U	No
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	No	464	U	No	464	U	No	464	U	No	464	U	No
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	No	511	U	No	511	U	No	511	U	No	511	U	No
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	No	660	U	No	660	U	No	660	U	No	660	U	No
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	No	472	U	No	472	U	No	472	U	No	472	U	No
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	No	408	U	No	408	U	No	408	U	No	408	U	No
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	No	432	U	No	432	U	No	432	U	No	432	U	No
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	No	8750	J	Yes	9370	UJ	No	9370	UJ	No	9370	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	No	459	U	No	459	U	No	459	U	No	459	U	No
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	No	510	U	No	510	U	No	510	U	No	510	U	No
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	10200	UJ	No	10200	UJ	No	10200	UJ	No	10200	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	2400	U	No	2400	U	No	2400	U	No	2400	U	No
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	397	U	No	397	U	No	397	U	No	397	U	No
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	387	U	No	387	U	No	387	U	No	387	U	No
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	873	U	No	873	U	No	873	U	No	873	U	No
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	936	U	No	936	U	No	936	U	No	936	U	No
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	5410	UJ	No	5410	UJ	No	5410	UJ	No	5410	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	4320	UJ	No	4320	UJ	No	4320	UJ	No	4320	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	374	U	No	374	U	No	374	U	No	374	U	No
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	9310	UJ	No	9310	UJ	No	9310	UJ	No	9310	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	877	U	No	877	U	No	877	U	No	877	U	No
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	421	U	No	421	U	No	421	U	No	421	U	No
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	1400	UJ	No	1400	UJ	No	1400	UJ	No	1400	UJ	No
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	488	U	No	488	U	No	488	U	No	488	U	No
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	375	U	No	375	U	No	375	U	No	375	U	No
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	361	J	Yes	383	U	No	383	U	No	383	U	No
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	604	U	No	604	U	No	604	U	No	604	U	No
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	392	U	No	392	U	No	392	U	No	392	U	No
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	381	U	No	381	U	No	381	U	No	381	U	No
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	909		Yes	408	U	No	408	U	No	408	U	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	2,4-Dichlorophenol µg/kg			2,4-Dimethylphenol µg/kg			2,4-Dinitrophenol µg/kg			2,4-Dinitrotoluene µg/kg			2,6-Dinitrotoluene µg/kg			2-Chlor
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	3400	UJ	No	6600	UJ	No	17000	UJ	No	3400	UJ	No	3400	UJ	No	3400
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	170	U	No	330	U	No	830	U	No	170	U	No	170	U	No	170
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	170	U	No	330	U	No	830	U	No	170	U	No	170	U	No	170
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	170	U	No	330	U	No	830	U	No	170	U	No	170	U	No	170
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	8500	UJ	No	17000	UJ	No	42000	UJ	No	8500	UJ	No	8500	UJ	No	8500
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	370	UJ	No	710	UJ	No	1800	UJ	No	370	UJ	No	370	UJ	No	370
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	561	U	No	561	UJ	No	3360	U	No	841	U	No	281	U	No	561
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	476	U	No	476	UJ	No	2860	U	No	714	U	No	238	U	No	476
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	2630	U	No	2630	UJ	No	15800	U	No	3940	U	No	1310	U	No	2630
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	546	U	No	546	UJ	No	3270	U	No	818	U	No	273	U	No	546
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	623	U	No	623	UJ	No	3740	U	No	934	U	No	311	U	No	623
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	427	U	No	427	UJ	No	2560	U	No	640	U	No	213	U	No	427
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	492	U	No	492	UJ	No	2960	U	No	739	U	No	246	U	No	492
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	510	U	No	510	U	No	3060	U	No	765	U	No	255	U	No	510
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	2180	U	No	2180	U	No	13100	U	No	3270	U	No	1090	U	No	2180
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	999	U	No	999	U	No	6000	U	No	1500	U	No	501	U	No	999
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	1980	U	No	1980	U	No	11900	U	No	2980	U	No	992	U	No	1980
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	464	U	No	464	UJ	No	2780	U	No	696	U	No	232	U	No	464
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	511	U	No	511	UJ	No	3060	U	No	766	U	No	255	U	No	511
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	660	U	No	660	UJ	No	3960	U	No	989	U	No	330	U	No	660
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	472	U	No	472	UJ	No	2830	U	No	708	U	No	236	U	No	472
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	408	U	No	408	UJ	No	2450	U	No	612	U	No	204	U	No	408
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	432	U	No	432	UJ	No	2600	U	No	649	U	No	216	U	No	432
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	9370	UJ	No	9370	UJ	No	56200	UJ	No	14000	UJ	No	4690	UJ	No	9370
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	459	U	No	459	UJ	No	2760	U	No	689	U	No	230	U	No	459
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	510	U	No	510	UJ	No	3060	U	No	765	U	No	255	U	No	510
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	10200	UJ	No	10200	UJ	No	61500	UJ	No	15400	UJ	No	5120	UJ	No	10200
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	2400	U	No	2400	U	No	14400	U	No	3610	U	No	1200	U	No	2400
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	397	U	No	397	U	No	2380	U	No	595	U	No	198	U	No	397
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	387	U	No	387	UJ	No	2320	U	No	581	U	No	194	U	No	387
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	873	U	No	873	U	No	5240	U	No	1310	U	No	436	U	No	873
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	936	U	No	936	U	No	5620	U	No	1400	U	No	468	U	No	936
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	5410	UJ	No	5410	UJ	No	32500	UJ	No	8120	UJ	No	2700	UJ	No	5410
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	4320	UJ	No	4320	UJ	No	26000	UJ	No	6490	UJ	No	2160	UJ	No	4320
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	374	U	No	374	U	No	2240	U	No	561	U	No	187	U	No	374
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	9310	UJ	No	9310	UJ	No	55900	UJ	No	14000	UJ	No	4660	UJ	No	9310
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	877	U	No	877	U	No	5260	U	No	1310	U	No	438	U	No	877
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	421	U	No	421	U	No	2530	U	No	632	U	No	210	U	No	421
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	1400	UJ	No	1400	UJ	No	8380	UJ	No	2100	UJ	No	699	UJ	No	1400
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	488	U	No	488	U	No	2930	U	No	732	U	No	244	U	No	488
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	375	U	No	375	U	No	2250	U	No	562	U	No	187	U	No	375
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	383	U	No	383	U	No	2300	U	No	574	U	No	191	U	No	383
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	604	U	No	604	U	No	3620	U	No	906	U	No	302	U	No	604
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	392	U	No	392	UJ	No	2350	U	No	588	U	No	196	U	No	392
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	381	U	No	381	U	No	2290	U	No	572	U	No	191	U	No	381
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	408	U	No	408	U	No	2440	U	No	611	U	No	204	U	No	408

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	onaphthalene µg/kg		2-Chlorophenol µg/kg			2-Methylphenol µg/kg		
								Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	UJ	No	3400	UJ	No	3400	UJ	No
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	U	No	170	U	No	170	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	U	No	170	U	No	170	U	No
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	U	No	170	U	No	170	U	No
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	UJ	No	8500	UJ	No	8500	UJ	No
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	UJ	No	370	UJ	No	370	UJ	No
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	U	No	281	U	No	561	U	No
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	U	No	238	U	No	476	U	No
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	U	No	1310	U	No	2630	U	No
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	U	No	273	U	No	546	U	No
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	U	No	311	U	No	623	U	No
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	U	No	213	U	No	427	U	No
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	U	No	246	U	No	492	U	No
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	U	No	255	U	No	510	U	No
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	U	No	1090	U	No	2180	U	No
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	U	No	501	U	No	999	U	No
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	U	No	992	U	No	1980	U	No
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	U	No	232	U	No	464	U	No
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	U	No	255	U	No	511	U	No
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	U	No	330	U	No	660	U	No
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	U	No	236	U	No	472	U	No
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	U	No	204	U	No	408	U	No
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	U	No	216	U	No	432	U	No
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	UJ	No	4690	UJ	No	9370	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	U	No	230	U	No	459	U	No
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	U	No	255	U	No	510	U	No
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	UJ	No	5120	UJ	No	10200	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	U	No	1200	U	No	2400	U	No
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	U	No	198	U	No	397	U	No
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	U	No	194	U	No	387	U	No
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	U	No	436	U	No	873	U	No
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	U	No	468	U	No	936	U	No
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	UJ	No	2700	UJ	No	5410	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	UJ	No	2160	UJ	No	4320	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	U	No	187	U	No	374	U	No
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	UJ	No	4660	UJ	No	9310	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	U	No	438	U	No	877	U	No
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	U	No	210	U	No	421	U	No
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	UJ	No	699	UJ	No	1400	UJ	No
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	U	No	244	U	No	488	U	No
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	U	No	187	U	No	375	U	No
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	U	No	191	U	No	383	U	No
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	U	No	302	U	No	604	U	No
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	U	No	196	U	No	392	U	No
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	U	No	191	U	No	381	U	No
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	U	No	204	U	No	408	U	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	2-Nitroaniline µg/kg			2-Nitrophenol µg/kg			3,3'-Dichlorobenzidine µg/kg			3-Nitroaniline µg/kg			4,6-Dinitro-2-methylphen µg/kg			4-Bromoph
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	3400	UJ	No	3400	UJ	No	6600	UJ	No	6600	UJ	No	6600	UJ	No	3400
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	170	U	No	170	U	No	330	U	No	330	U	No	330	U	No	170
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	170	U	No	170	U	No	330	U	No	330	U	No	330	U	No	170
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	170	U	No	170	U	No	330	U	No	330	U	No	330	U	No	170
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	8500	UJ	No	8500	UJ	No	17000	UJ	No	17000	UJ	No	17000	UJ	No	8500
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	370	UJ	No	370	UJ	No	710	UJ	No	710	UJ	No	710	UJ	No	370
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	281	U	No	561	U	No	841	U	No	281	U	No	2810	U	No	561
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	238	U	No	476	U	No	714	U	No	238	U	No	2380	U	No	476
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	1310	U	No	2630	U	No	3940	U	No	1310	U	No	13100	U	No	2630
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	273	U	No	546	U	No	818	U	No	273	U	No	2730	U	No	546
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	311	U	No	623	U	No	934	UJ	No	311	UJ	No	3110	U	No	623
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	213	U	No	427	U	No	640	U	No	213	U	No	2130	U	No	427
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	246	U	No	492	U	No	739	U	No	246	U	No	2460	U	No	492
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	255	U	No	510	U	No	765	U	No	255	U	No	2550	U	No	510
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	1090	U	No	2180	U	No	3270	U	No	1090	U	No	10900	U	No	2180
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	501	U	No	999	U	No	1500	U	No	501	U	No	5010	U	No	999
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	992	U	No	1980	U	No	2980	U	No	992	U	No	9920	U	No	1980
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	232	U	No	464	U	No	696	U	No	232	U	No	2320	U	No	464
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	255	U	No	511	U	No	766	U	No	255	U	No	2550	U	No	511
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	330	U	No	660	U	No	989	U	No	330	U	No	3300	U	No	660
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	236	U	No	472	U	No	708	U	No	236	U	No	2360	U	No	472
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	204	U	No	408	U	No	612	U	No	204	U	No	2040	U	No	408
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	216	U	No	432	U	No	649	U	No	216	U	No	2160	U	No	432
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	4690	UJ	No	9370	UJ	No	14000	UJ	No	4690	UJ	No	46900	UJ	No	9370
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	230	U	No	459	U	No	689	U	No	230	U	No	2300	U	No	459
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	255	U	No	510	U	No	765	U	No	255	U	No	2550	U	No	510
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	5120	UJ	No	10200	UJ	No	15400	UJ	No	5120	UJ	No	51200	UJ	No	10200
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	1200	U	No	2400	U	No	3610	U	No	1200	U	No	12000	U	No	2400
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	198	U	No	397	U	No	595	U	No	198	U	No	1980	U	No	397
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	194	U	No	387	U	No	581	UJ	No	194	U	No	1940	U	No	387
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	436	U	No	873	U	No	1310	U	No	436	U	No	4360	U	No	873
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	468	U	No	936	U	No	1400	U	No	468	U	No	4680	U	No	936
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	2700	UJ	No	5410	UJ	No	8120	UJ	No	2700	UJ	No	27000	UJ	No	5410
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	2160	UJ	No	4320	UJ	No	6490	UJ	No	2160	UJ	No	21600	UJ	No	4320
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	187	U	No	374	U	No	561	U	No	187	U	No	1870	U	No	374
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	4660	UJ	No	9310	UJ	No	14000	UJ	No	4660	UJ	No	46600	UJ	No	9310
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	438	U	No	877	U	No	1310	U	No	438	U	No	4380	U	No	877
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	210	U	No	421	U	No	632	U	No	210	U	No	2100	U	No	421
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	699	UJ	No	1400	UJ	No	2100	UJ	No	699	UJ	No	6990	UJ	No	1400
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	244	U	No	488	U	No	732	U	No	244	U	No	2440	U	No	488
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	187	U	No	375	U	No	562	U	No	187	U	No	1870	U	No	375
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	191	U	No	383	U	No	574	U	No	191	U	No	1910	U	No	383
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	302	U	No	604	U	No	906	U	No	302	U	No	3020	U	No	604
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	196	U	No	392	U	No	588	UJ	No	196	U	No	1960	U	No	392
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	191	U	No	381	U	No	572	U	No	191	U	No	1910	U	No	381
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	204	U	No	408	U	No	611	U	No	204	U	No	2040	U	No	408

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	henyl-phenyleth µg/kg		4-Chloro-3-methylphenc µg/kg		
								Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	UJ	No	3400	UJ	No
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	U	No	170	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	U	No	170	U	No
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	U	No	170	U	No
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	UJ	No	8500	UJ	No
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	UJ	No	370	UJ	No
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	U	No	841	U	No
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	U	No	714	U	No
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	U	No	3940	U	No
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	U	No	818	U	No
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	U	No	934	U	No
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	U	No	640	U	No
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	U	No	739	U	No
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	U	No	765	U	No
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	U	No	3270	U	No
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	U	No	1500	U	No
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	U	No	2980	U	No
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	U	No	696	U	No
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	U	No	766	U	No
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	U	No	989	U	No
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	U	No	708	U	No
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	U	No	612	U	No
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	U	No	649	U	No
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	UJ	No	14000	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	U	No	689	U	No
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	U	No	765	U	No
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	UJ	No	15400	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	U	No	3610	U	No
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	U	No	595	U	No
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	U	No	581	U	No
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	U	No	1310	U	No
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	U	No	1400	U	No
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	UJ	No	8120	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	UJ	No	6490	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	U	No	561	U	No
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	UJ	No	14000	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	U	No	1310	U	No
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	U	No	632	U	No
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	UJ	No	2100	UJ	No
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	U	No	732	U	No
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	U	No	562	U	No
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	U	No	574	U	No
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	U	No	906	U	No
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	U	No	588	U	No
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	U	No	572	U	No
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	U	No	611	U	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	4-Chloroaniline µg/kg			4-Chlorophenyl-phenyleth µg/kg			4-Methylphenol µg/kg			4-Nitroaniline µg/kg			4-Nitrophenol µg/kg			Ace
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	3400	UJ	No	3400	UJ	No	3400	UJ	No	6600	UJ	No	6600	UJ	No	3400
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	170	U	No	170	U	No	170	U	No	330	U	No	330	U	No	170
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	170	U	No	170	U	No	170	U	No	330	U	No	330	U	No	170
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	170	U	No	170	U	No	170	U	No	330	U	No	330	U	No	48
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	8500	UJ	No	8500	UJ	No	8500	UJ	No	17000	UJ	No	17000	UJ	No	8500
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	370	UJ	No	370	UJ	No	370	UJ	No	710	UJ	No	710	UJ	No	370
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	281	UJ	No	281	U	No	561	U	No	281	U	No	5610	U	No	586
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	238	UJ	No	238	U	No	476	U	No	238	U	No	4760	U	No	354
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	1310	UJ	No	1310	U	No	2630	U	No	1310	U	No	26300	U	No	3380
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	273	UJ	No	273	U	No	546	U	No	273	U	No	5460	U	No	477
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	311	UJ	No	311	U	No	623	U	No	311	U	No	6230	U	No	490
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	213	UJ	No	213	U	No	427	U	No	213	U	No	4270	U	No	288
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	246	UJ	No	246	U	No	492	U	No	246	U	No	4920	U	No	253
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	255	U	No	255	U	No	510	U	No	255	U	No	5100	U	No	216
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	1090	U	No	1090	U	No	2180	U	No	1090	U	No	21800	U	No	2180
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	501	U	No	501	U	No	999	U	No	501	U	No	9990	U	No	284
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	992	U	No	992	U	No	1980	U	No	992	U	No	19800	U	No	1980
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	232	UJ	No	232	U	No	464	U	No	232	U	No	4640	U	No	426
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	255	UJ	No	255	U	No	511	U	No	255	U	No	5110	U	No	268
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	330	UJ	No	330	U	No	206	J	Yes	330	U	No	6600	U	No	2420
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	236	UJ	No	236	U	No	472	U	No	236	U	No	4720	U	No	317
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	204	UJ	No	204	U	No	408	U	No	204	U	No	4080	U	No	478
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	216	UJ	No	216	U	No	432	U	No	216	U	No	4320	U	No	470
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	4690	UJ	No	4690	UJ	No	9370	UJ	No	4690	UJ	No	93700	UJ	No	8140
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	230	UJ	No	230	U	No	459	U	No	230	U	No	4590	U	No	474
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	255	UJ	No	255	U	No	510	U	No	255	U	No	5100	U	No	395
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	5120	UJ	No	5120	UJ	No	10200	UJ	No	5120	UJ	No	102000	UJ	No	10200
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	1200	U	No	1200	U	No	2400	U	No	1200	U	No	24000	U	No	2400
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	198	U	No	198	U	No	397	U	No	198	U	No	3970	U	No	206
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	194	UJ	No	194	U	No	387	U	No	194	U	No	3870	U	No	134
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	436	U	No	436	U	No	873	U	No	436	U	No	8730	U	No	469
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	468	U	No	468	U	No	936	U	No	468	U	No	9360	U	No	472
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	2700	UJ	No	2700	UJ	No	5410	UJ	No	2700	UJ	No	54100	UJ	No	1570
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	2160	UJ	No	2160	UJ	No	4320	UJ	No	2160	UJ	No	43200	UJ	No	1500
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	187	U	No	187	U	No	374	U	No	187	U	No	3740	U	No	376
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	4660	UJ	No	4660	UJ	No	9310	UJ	No	4660	UJ	No	93100	UJ	No	2800
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	438	U	No	438	U	No	877	U	No	438	U	No	8770	U	No	1060
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	210	U	No	210	U	No	421	U	No	210	U	No	4210	U	No	849
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	699	UJ	No	699	UJ	No	451	J	Yes	699	UJ	No	14000	UJ	No	3850
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	244	U	No	244	U	No	488	U	No	244	U	No	4880	U	No	694
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	187	U	No	187	U	No	375	U	No	187	U	No	3750	U	No	631
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	191	U	No	191	U	No	383	U	No	191	U	No	3830	U	No	1750
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	302	U	No	302	U	No	604	U	No	302	U	No	6040	U	No	1540
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	196	UJ	No	196	U	No	392	U	No	196	U	No	3920	U	No	870
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	191	U	No	191	U	No	381	U	No	191	U	No	3810	U	No	663
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	204	U	No	204	U	No	408	U	No	204	U	No	4080	U	No	1500

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	tophenone µg/kg			Atrazine µg/kg			Benzaldehyde µg/kg			Bis-(2-chloroethoxy)metha µg/kg			Bis-(2-chloroethyl)ether µg/kg			Bis-(2-ethylhexyl µg/kg	
								Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	UJ	No	3400	UJ	No	3400	UJ	No	3400	UJ	No	3400	UJ	No	6900	J
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	U	No	170	U	No	170	U	No	170	U	No	170	U	No	1400	
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	U	No	170	U	No	38	J	Yes	170	U	No	170	U	No	750	
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	J	Yes	170	U	No	170	U	No	170	U	No	170	U	No	1200	
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	UJ	No	8500	UJ	No	8500	UJ	No	8500	UJ	No	8500	UJ	No	8500	UJ
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	UJ	No	370	UJ	No	370	UJ	No	370	UJ	No	370	UJ	No	2300	J
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes		Yes	561	U	No	4210	U	No	561	U	No	561	U	No	6260	J
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	J	Yes	476	U	No	3570	U	No	476	U	No	476	U	No	780	J
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes		Yes	2630	U	No	19700	U	No	2630	U	No	2630	U	No	5250	U
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	J	Yes	546	U	No	4090	U	No	546	U	No	546	U	No	3350	
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	J	Yes	623	U	No	4670	U	No	623	U	No	623	U	No	894	J
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	J	Yes	427	U	No	3200	U	No	427	U	No	427	U	No	611	J
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	J	Yes	492	U	No	3690	U	No	492	U	No	492	U	No	362	J
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	J	Yes	510	U	No	3830	U	No	510	U	No	510	U	No	605	J
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	U	No	2180	U	No	16400	U	No	2180	U	No	2180	U	No	4360	U
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	J	Yes	999	U	No	7500	U	No	999	U	No	999	U	No	1110	J
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	U	No	1980	U	No	14900	U	No	1980	U	No	1980	U	No	2380	J
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	J	Yes	464	U	No	3480	U	No	464	U	No	464	U	No	524	J
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	J	Yes	511	U	No	3830	U	No	511	U	No	511	U	No	348	J
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes		Yes	660	U	No	4950	U	No	660	U	No	660	U	No	1320	U
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	J	Yes	472	U	No	3540	U	No	472	U	No	472	U	No	297	J
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes		Yes	408	U	No	3060	U	No	408	U	No	408	U	No	1510	
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes		Yes	432	U	No	3240	U	No	432	U	No	432	U	No	865	U
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	J	Yes	9370	UJ	No	70300	UJ	No	9370	UJ	No	9370	UJ	No	18700	UJ
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes		Yes	459	U	No	3450	U	No	459	U	No	459	U	No	5070	
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	J	Yes	510	U	No	3820	U	No	510	U	No	510	U	No	997	J
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	UJ	No	10200	UJ	No	76800	UJ	No	10200	UJ	No	10200	UJ	No	20500	UJ
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	U	No	2400	U	No	18000	U	No	2400	U	No	2400	U	No	4810	U
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	J	Yes	397	U	No	2970	U	No	397	U	No	397	U	No	793	U
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	J	Yes	387	U	No	2900	U	No	387	UJ	No	387	U	No	774	U
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	J	Yes	873	U	No	6550	U	No	873	U	No	873	U	No	1750	U
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	J	Yes	936	U	No	7020	U	No	936	U	No	936	U	No	1870	U
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	J	Yes	5410	UJ	No	40600	UJ	No	5410	UJ	No	5410	UJ	No	10800	UJ
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	J	Yes	4320	UJ	No	32400	UJ	No	4320	UJ	No	4320	UJ	No	8650	UJ
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No		Yes	374	U	No	2800	U	No	374	U	No	374	U	No	748	U
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	J	Yes	9310	UJ	No	69800	UJ	No	9310	UJ	No	9310	UJ	No	18600	UJ
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No		Yes	877	U	No	6570	U	No	877	U	No	877	U	No	772	J
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No		Yes	421	U	No	3160	U	No	421	U	No	421	U	No	842	U
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	J	Yes	1400	UJ	No	10500	UJ	No	1400	UJ	No	1400	UJ	No	6520	J
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No		Yes	488	U	No	3660	U	No	488	U	No	488	U	No	281	J
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No		Yes	375	U	No	2810	U	No	375	U	No	375	U	No	4540	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No		Yes	383	U	No	2870	U	No	383	U	No	383	U	No	210	J
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		Yes	604	U	No	4530	U	No	604	U	No	604	U	No	554	J
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No		Yes	392	U	No	2940	U	No	392	U	No	392	U	No	784	U
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No		Yes	381	U	No	2860	U	No	381	U	No	381	U	No	763	U
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No		Yes	408	U	No	3060	U	No	408	U	No	408	U	No	815	U

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	)phthalat Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	Yes
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	No
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	Yes
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	No
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	No
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	No
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	No
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	No
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	No
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	No
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	No
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	No
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	No
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	No
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	No
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	No
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	No
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	No
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	No
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	No
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	No
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Butylbenzylphthalate µg/kg			Caprolactam µg/kg			Carbazole µg/kg			Dibenzofuran µg/kg			Diethylphthalate µg/kg			Dimet
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	3400	UJ	No	3400	UJ	No	3400	UJ	No	3400	UJ	No	3400	UJ	No	3400
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	60	J	Yes	170	U	No	89	J	Yes	170	U	No	170	U	No	170
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	170	U	No	170	U	No	63	J	Yes	170	U	No	170	U	No	170
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	170	U	No	170	U	No	140	J	Yes	69	J	Yes	170	U	No	170
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	8500	UJ	No	8500	UJ	No	8500	UJ	No	2100	J	Yes	8500	UJ	No	8500
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	370	UJ	No	370	UJ	No	200	J	Yes	98	J	Yes	370	UJ	No	370
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	561	U	No	561	U	No	172	J	Yes	147	J	Yes	561	U	No	561
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	476	U	No	476	U	No	476	U	No	116	J	Yes	476	U	No	476
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	2630	U	No	2630	U	No	2630	U	No	777	J	Yes	2630	U	No	2630
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	546	U	No	546	U	No	546	U	No	546	U	No	546	U	No	546
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	623	U	No	623	U	No	623	U	No	623	U	No	623	U	No	623
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	427	U	No	427	U	No	427	U	No	427	U	No	427	U	No	427
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	492	U	No	492	U	No	492	U	No	492	U	No	492	U	No	492
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	510	U	No	510	U	No	510	U	No	510	U	No	510	U	No	510
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	2180	U	No	2180	U	No	2180	U	No	2180	U	No	2180	U	No	2180
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	999	U	No	999	U	No	999	U	No	999	U	No	999	U	No	999
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	1980	U	No	1980	U	No	1980	U	No	1980	U	No	1980	U	No	1980
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	464	U	No	464	U	No	464	U	No	464	U	No	464	U	No	464
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	511	U	No	511	U	No	511	U	No	511	U	No	511	U	No	511
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	660	U	No	660	U	No	660	U	No	126	J	Yes	660	U	No	660
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	472	U	No	472	U	No	472	U	No	472	U	No	472	U	No	472
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	408	U	No	408	U	No	84.8	J	Yes	81.6	J	Yes	408	U	No	408
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	432	U	No	432	U	No	432	U	No	432	U	No	432	U	No	432
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	9370	UJ	No	9370	UJ	No	9370	UJ	No	3010	J	Yes	9370	UJ	No	9370
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	459	U	No	459	U	No	459	U	No	459	U	No	459	U	No	459
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	510	U	No	510	U	No	510	U	No	510	U	No	510	U	No	510
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	10200	UJ	No	4140	J	Yes	10200	UJ	No	3220	J	Yes	10200	UJ	No	10200
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	2400	U	No	2400	U	No	2400	U	No	2400	U	No	2400	U	No	2400
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	397	U	No	397	U	No	397	U	No	397	U	No	397	U	No	397
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	387	U	No	387	U	No	387	U	No	387	U	No	387	U	No	387
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	873	U	No	873	U	No	873	U	No	873	U	No	873	U	No	873
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	936	U	No	936	U	No	936	U	No	936	U	No	936	U	No	936
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	5410	UJ	No	5410	UJ	No	5410	UJ	No	5410	UJ	No	5410	UJ	No	5410
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	4320	UJ	No	4320	UJ	No	4320	UJ	No	4320	UJ	No	4320	UJ	No	4320
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	374	U	No	374	U	No	374	U	No	374	U	No	374	U	No	374
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	9310	UJ	No	9310	UJ	No	9310	UJ	No	1900	J	Yes	9310	UJ	No	9310
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	877	U	No	877	U	No	877	U	No	169	J	Yes	877	U	No	877
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	421	U	No	421	U	No	421	U	No	421	U	No	421	U	No	421
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	859	J	Yes	1400	UJ	No	1400	UJ	No	1400	UJ	No	1400	UJ	No	1400
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	488	U	No	488	U	No	488	U	No	488	U	No	488	U	No	488
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	375	U	No	375	U	No	375	U	No	375	U	No	375	U	No	375
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	383	U	No	383	U	No	857		Yes	528		Yes	383	U	No	383
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	604	U	No	604	U	No	150	J	Yes	604	U	No	604	U	No	604
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	392	U	No	392	U	No	392	U	No	392	U	No	392	U	No	392
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	381	U	No	381	U	No	381	U	No	91.9	J	Yes	381	U	No	381
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	408	U	No	408	U	No	1660		Yes	3820		Yes	408	U	No	408

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	hylphthalate µg/kg		Di-n-butylphthalate µg/kg			Di-n-octylphthalate µg/kg			Hexachlorobutadiene µg/kg			Hexachlorocyclopentadie µg/kg			Hexachloroe µg/kg	
								Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	UJ	No	3400	UJ	No	3400	UJ	No	3400	UJ	No	3400	UJ	No	3400	UJ
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	U	No	170	U	No	170	U	No	170	U	No	170	U	No	170	U
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	U	No	170	U	No	170	U	No	170	U	No	170	U	No	170	U
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	U	No	61	J	Yes	170	U	No	170	U	No	170	U	No	170	U
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	UJ	No	8500	UJ	No	8500	UJ	No	8500	UJ	No	8500	UJ	No	8500	UJ
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	UJ	No	110	J	Yes	370	U	No	370	UJ	No	370	UJ	No	370	UJ
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	U	No	841	U	No	561	U	No	561	U	No	281	UJ	No	561	U
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	U	No	714	U	No	476	U	No	476	U	No	238	UJ	No	476	U
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	U	No	3940	U	No	2630	U	No	2630	U	No	1310	UJ	No	2630	U
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	U	No	818	U	No	546	U	No	546	U	No	273	UJ	No	546	U
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	U	No	934	U	No	623	U	No	623	U	No	311	UJ	No	623	U
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	U	No	640	U	No	427	U	No	427	U	No	213	UJ	No	427	U
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	U	No	739	U	No	492	U	No	492	U	No	246	UJ	No	492	U
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	U	No	765	U	No	510	U	No	510	U	No	255	UJ	No	510	U
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	U	No	3270	U	No	2180	U	No	2180	U	No	1090	UJ	No	2180	U
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	U	No	1500	U	No	999	U	No	999	U	No	501	UJ	No	999	U
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	U	No	2980	U	No	1980	U	No	1980	U	No	992	UJ	No	1980	U
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	U	No	696	U	No	464	U	No	464	U	No	232	UJ	No	464	U
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	U	No	766	U	No	511	U	No	511	U	No	255	UJ	No	511	U
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	U	No	989	U	No	660	U	No	660	U	No	330	UJ	No	660	U
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	U	No	708	U	No	472	U	No	472	U	No	236	UJ	No	472	U
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	U	No	612	U	No	408	U	No	408	U	No	204	UJ	No	408	U
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	U	No	649	U	No	432	U	No	432	U	No	216	UJ	No	432	U
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	UJ	No	14000	UJ	No	9370	UJ	No	9370	UJ	No	4690	UJ	No	9370	UJ
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	U	No	689	U	No	459	U	No	459	U	No	230	UJ	No	459	U
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	U	No	765	U	No	510	U	No	510	U	No	255	UJ	No	510	U
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	UJ	No	15400	UJ	No	10200	UJ	No	10200	UJ	No	5120	UJ	No	10200	UJ
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	U	No	3610	U	No	2400	U	No	2400	U	No	1200	UJ	No	2400	U
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	U	No	595	U	No	397	U	No	397	U	No	198	UJ	No	397	U
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	U	No	581	U	No	387	U	No	387	U	No	194	UJ	No	387	U
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	U	No	1310	U	No	873	U	No	873	U	No	436	UJ	No	873	U
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	U	No	1400	U	No	936	U	No	936	U	No	468	UJ	No	936	U
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	UJ	No	8120	UJ	No	5410	UJ	No	5410	UJ	No	2700	UJ	No	5410	UJ
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	UJ	No	6490	UJ	No	4320	UJ	No	4320	UJ	No	2160	UJ	No	4320	UJ
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	U	No	561	U	No	374	U	No	374	U	No	187	UJ	No	374	U
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	UJ	No	14000	UJ	No	9310	UJ	No	9310	UJ	No	4660	UJ	No	9310	UJ
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	U	No	1310	U	No	877	U	No	877	U	No	438	UJ	No	877	U
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	U	No	632	U	No	421	U	No	421	U	No	210	UJ	No	421	U
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	UJ	No	2100	UJ	No	1400	UJ	No	1400	UJ	No	699	UJ	No	1400	UJ
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	U	No	732	U	No	488	U	No	488	U	No	244	UJ	No	488	U
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	U	No	562	U	No	375	U	No	375	U	No	187	UJ	No	375	U
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	U	No	574	U	No	383	U	No	383	U	No	191	UJ	No	383	U
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	U	No	906	U	No	604	U	No	604	U	No	302	UJ	No	604	U
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	U	No	588	U	No	392	U	No	392	U	No	196	UJ	No	392	U
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	U	No	572	U	No	381	U	No	381	U	No	191	UJ	No	381	U
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	U	No	611	U	No	408	U	No	408	U	No	204	UJ	No	408	U

BERA Sediment Chemistry Data from Above Dundee Dam

							Included	thane		Isophorone			Nitrobenzene			n-Nitroso-di-n-propylamir			n-Nitrosodiphenylamine			Pentachlorophenol		
							in			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Event	Location	RM	X	Y	Sample Date	Sample ID	Background	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	No	3400	UJ	No	3400	UJ	No	3400	UJ	No	3400	UJ	No	6600	UJ	No
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	No	170	U	No	170	U	No	170	U	No	170	U	No	330	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	No	170	U	No	170	U	No	170	U	No	47	J	Yes	330	U	No
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	No	170	U	No	170	U	No	170	U	No	170	U	No	330	U	No
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	No	8500	UJ	No	8500	UJ	No	8500	UJ	No	8500	UJ	No	17000	UJ	No
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	No	370	UJ	No	370	U	No	370	UJ	No	370	UJ	No	710	UJ	No
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	No	561	U	No	561	U	No	561	U	No	561	U	No	1690	UJ	No
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	No	476	U	No	476	U	No	476	U	No	476	U	No	1430	UJ	No
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	No	2630	U	No	2630	U	No	2630	U	No	2630	U	No	7880	UJ	No
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	No	546	U	No	546	U	No	546	U	No	546	U	No	1640	UJ	No
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	No	623	U	No	623	U	No	623	U	No	623	U	No	1870	UJ	No
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	No	427	U	No	427	U	No	427	U	No	427	U	No	1280	UJ	No
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	No	492	U	No	492	U	No	492	U	No	492	U	No	1480	UJ	No
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	No	510	U	No	510	U	No	510	U	No	510	U	No	1530	U	No
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	No	2180	U	No	2180	U	No	2180	U	No	2180	U	No	6550	U	No
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	No	999	U	No	999	U	No	999	U	No	999	U	No	3000	U	No
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	No	1980	U	No	1980	U	No	1980	U	No	1980	U	No	5950	U	No
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	No	464	U	No	464	U	No	464	U	No	464	U	No	1390	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	No	511	U	No	511	U	No	511	U	No	511	U	No	1530	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	No	660	U	No	660	U	No	660	U	No	660	U	No	1980	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	No	472	U	No	472	U	No	472	U	No	472	U	No	1420	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	No	408	U	No	408	U	No	408	U	No	408	U	No	1220	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	No	432	U	No	432	U	No	432	U	No	432	U	No	1300	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	No	9370	UJ	No	9370	UJ	No	9370	UJ	No	9370	UJ	No	28100	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	No	459	U	No	459	U	No	459	U	No	459	U	No	1380	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	No	510	U	No	510	U	No	510	U	No	510	U	No	1530	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	No	10200	UJ	No	10200	UJ	No	10200	UJ	No	10200	UJ	No	30700	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	No	2400	U	No	2400	U	No	2400	U	No	2400	U	No	7210	U	No
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	No	397	U	No	397	U	No	397	U	No	397	U	No	1190	U	No
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	No	387	U	No	387	U	No	387	U	No	387	U	No	1160	U	No
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	No	873	U	No	873	U	No	873	U	No	873	U	No	2620	U	No
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	No	936	U	No	936	U	No	936	U	No	936	U	No	2810	U	No
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	No	5410	UJ	No	5410	UJ	No	5410	UJ	No	5410	UJ	No	16200	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	No	4320	UJ	No	4320	UJ	No	4320	UJ	No	4320	UJ	No	13000	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	No	374	U	No	374	U	No	374	U	No	374	U	No	1120	U	No
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	No	9310	UJ	No	9310	UJ	No	9310	UJ	No	9310	UJ	No	27900	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	No	877	U	No	877	U	No	877	U	No	877	U	No	2630	U	No
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	No	421	U	No	421	U	No	421	U	No	421	U	No	1260	U	No
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	No	1400	UJ	No	1400	UJ	No	1400	UJ	No	1400	UJ	No	4190	UJ	No
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	No	488	U	No	488	U	No	488	U	No	488	U	No	1460	U	No
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	No	375	U	No	375	U	No	375	U	No	375	U	No	1120	U	No
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	No	383	U	No	383	U	No	383	U	No	383	U	No	1150	U	No
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	No	604	U	No	604	U	No	604	U	No	604	U	No	1810	U	No
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	No	392	U	No	392	U	No	392	U	No	392	U	No	1180	U	No
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	No	381	U	No	381	U	No	381	U	No	381	U	No	1140	U	No
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	No	408	U	No	408	U	No	408	U	No	408	U	No	1220	U	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Phenol µg/kg Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	3400	UJ	No
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	170	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	170	U	No
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	170	U	No
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	8500	UJ	No
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	370	UJ	No
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	561	U	No
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	476	U	No
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	2630	U	No
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	546	U	No
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	623	U	No
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	427	U	No
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	492	U	No
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	510	U	No
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	2180	U	No
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	999	U	No
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	1980	U	No
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	464	U	No
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	511	U	No
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	660	U	No
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	472	U	No
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	408	U	No
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	432	U	No
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	9370	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	459	U	No
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	510	U	No
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	10200	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	2400	U	No
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	397	U	No
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	387	U	No
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	873	U	No
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	936	U	No
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	5410	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	4320	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	374	U	No
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	9310	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	877	U	No
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	421	U	No
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	708	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	488	U	No
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	375	U	No
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	224	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	604	U	No
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	392	U	No
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	381	U	No
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	408	U	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	SQT Station	2,6,10,14-Tetramethylhexadecane mg/kg			2,6,10,14-Tetramethylpentadecane mg/kg			2,6,10-Trimethyldodecane mg/kg		
									Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	No									
2008 LRC Program	08A-099	17.5	594943.33	747038.85	01-Oct-08	08A-0099-C2AS	Yes	No									
2008 LRC Program	08A-100	17.61	594727.78	747679.04	30-Sep-08	08A-0100-C2AS	Yes	No									
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes	No									
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	No									
2008 LRC Program	08A-103	17.79	594472.88	748315.3	30-Sep-08	08A-0103-C2AS	Yes	No									
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	No									
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	No	1.46		Yes	0.541	J	Yes	0.192	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	No	5.06		Yes	1.48		Yes	0.545	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	No	3.64		Yes	1.08		Yes	0.364	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	No	2.39		Yes	1.09		Yes	0.409	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	No	2.11		Yes	1.52		Yes	0.406	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	No	1.84		Yes	0.448		Yes	0.132	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	No	0.281		Yes	0.088		Yes	0.029	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	0.362	J	Yes	0.19	J	Yes	0.471	U	No
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	3.25		Yes	1.32		Yes	0.421		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	0.691		Yes	0.314	J	Yes	0.076	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	6		Yes	1.53		Yes	0.324	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	No	1.21		Yes	0.181	J	Yes	0.04	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	No	0.108		Yes	0.058	J	Yes	0.015	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	No	4.19		Yes	3.57		Yes	1.22		Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	No	2.56		Yes	0.534		Yes	0.206	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	No	0.532		Yes	0.304		Yes	0.073	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	No	0.783		Yes	0.235		Yes	0.031	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	No	85	J	Yes	26.9	J	Yes	8.14	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	No	0.964		Yes	0.149	J	Yes	0.218	U	No
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	No	0.36		Yes	0.166	J	Yes	0.041	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	124	J	Yes	61.4	J	Yes	11.3	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	2.01		Yes	0.91		Yes	0.191	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	0.585		Yes	0.216		Yes	0.045	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	0.274		Yes	0.628		Yes	0.049	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	0.363	J	Yes	0.188	J	Yes	0.408	U	No
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	1.01		Yes	0.213	J	Yes	0.424	U	No
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	2.9	J	Yes	1.42	J	Yes	0.76	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	14.9	J	Yes	6.36	J	Yes	1.4	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	0.084		Yes	0.041	J	Yes	0.072	U	No
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	47.2	J	Yes	12.5	J	Yes	2.72	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	0.197		Yes	0.052	J	Yes	0.082	U	No
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	0.317		Yes	0.089		Yes	0.075	U	No
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	0.534	J	Yes	0.536	J	Yes	0.247	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	0.058	J	Yes	0.165	J	Yes	0.054	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	0.035	J	Yes	0.055	J	Yes	0.021	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	0.06	J	Yes	0.093	J	Yes	0.035	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	0.081	J	Yes	0.088	J	Yes	0.041	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	0.034	J	Yes	0.098	J	Yes	0.046	J	Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	0.012	J	Yes	0.019	J	Yes	0.012	J	Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	0.03	J	Yes	0.06	J	Yes	0.023	J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	,6,10-Trimethyltridecan mg/kg			Dodecane mg/kg			Dotriacontane mg/kg			Eicosane mg/kg			Hentriacontane mg/kg			He
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes																
2008 LRC Program	08A-099	17.5	594943.33	747038.85	01-Oct-08	08A-0099-C2AS	Yes																
2008 LRC Program	08A-100	17.61	594727.78	747679.04	30-Sep-08	08A-0100-C2AS	Yes																
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes																
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes																
2008 LRC Program	08A-103	17.79	594472.88	748315.3	30-Sep-08	08A-0103-C2AS	Yes																
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes																
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	1.2		Yes	0.514	U	No	0.382	J	Yes	0.291	J	Yes	2.19		Yes	1.35
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	3.94		Yes	0.872	U	No	0.468	J	Yes	0.816	J	Yes	0.922		Yes	1.3
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	3.71		Yes	0.894	U	No	0.498	J	Yes	0.629	J	Yes	1.68		Yes	1.63
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	2.03		Yes	0.516	U	No	0.355	J	Yes	0.317	J	Yes	2.17		Yes	2.06
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	1.86		Yes	0.552	U	No	0.405	J	Yes	0.448	J	Yes	2.23		Yes	1.9
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	1.29		Yes	0.397	U	No	0.155	J	Yes	0.308	J	Yes	0.44		Yes	0.435
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.267		Yes	0.085	U	No	0.086		Yes	0.071	J	Yes	0.402		Yes	0.295
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.362	J	Yes	0.471	U	No	0.064	J	Yes	0.112	J	Yes	1.07		Yes	0.918
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	3.85		Yes	0.165	J	Yes	0.23	J	Yes	0.753		Yes	1.04		Yes	1.29
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.619		Yes	0.458	U	No	0.458	U	No	0.108	J	Yes	0.854		Yes	0.735
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	3.28		Yes	0.132	J	Yes	0.308	J	Yes	0.496		Yes	0.456		Yes	0.899
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.558		Yes	0.065	J	Yes	0.123	J	Yes	0.143	J	Yes	0.426		Yes	0.293
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.114		Yes	0.087	U	No	0.083	J	Yes	0.049	J	Yes	0.507		Yes	0.36
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	3.01		Yes	0.434	J	Yes	0.63		Yes	0.54	J	Yes	2.78		Yes	1.87
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	1.45		Yes	0.109	J	Yes	0.44	J	Yes	0.317	J	Yes	2.07		Yes	1.54
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.771		Yes	0.133	J	Yes	0.155	J	Yes	0.282		Yes	0.345		Yes	0.357
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.557		Yes	0.057	J	Yes	0.128		Yes	0.191		Yes	0.276		Yes	0.239
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	29.8	J	Yes	3.5	J	Yes	2.96	J	Yes	9.94	J	Yes	7.3	J	Yes	9.45
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.465		Yes	0.218	U	No	0.182	J	Yes	0.123	J	Yes	0.773		Yes	0.563
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.254		Yes	0.222	U	No	0.267		Yes	0.13	J	Yes	1.97		Yes	1.34
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	15.9	J	Yes	2.25	J	Yes	3.08	J	Yes	20.9	J	Yes	8.21	J	Yes	17.1
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	1.52		Yes	0.461	U	No	0.461	U	No	0.311	J	Yes	0.839		Yes	0.892
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.463		Yes	0.019	J	Yes	0.032	J	Yes	0.031	J	Yes	0.238		Yes	0.239
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.412		Yes	0.017	J	Yes	0.021	J	Yes	0.338		Yes	0.307		Yes	0.212
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.356	J	Yes	0.408	U	No	0.073	J	Yes	0.145	J	Yes	0.916		Yes	0.697
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.47		Yes	0.424	U	No	0.075	J	Yes	0.066	J	Yes	1.13		Yes	1.02
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	2.34	J	Yes	0.219	J	Yes	0.793	J	Yes	0.605	J	Yes	9.06	J	Yes	6.66
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	7.49	J	Yes	0.394	J	Yes	0.833	J	Yes	0.6	J	Yes	5.06	J	Yes	4.64
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.079		Yes	0.019	J	Yes	0.017	J	Yes	0.037	J	Yes	0.262		Yes	0.145
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	10.6	J	Yes	1.05	J	Yes	2.29	J	Yes	5.01	J	Yes	7.48	J	Yes	10.5
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.112		Yes	0.082	U	No	0.05	J	Yes	0.033	J	Yes	0.68		Yes	0.509
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.134		Yes	0.075	U	No	0.01	J	Yes	0.017	J	Yes	0.157		Yes	0.113
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	0.584	J	Yes	1.56	UJ	No	9.73	J	Yes	0.456	J	Yes	20	J	Yes	16.6
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.1	J	Yes	0.174	U	No	0.866		Yes	0.085	J	Yes	0.678		Yes	0.656
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.033	J	Yes	0.09	U	No	0.456		Yes	0.05	J	Yes	0.205		Yes	0.159
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.037	J	Yes	0.147	U	No	0.529		Yes	0.088	J	Yes	0.229		Yes	0.196
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.109	J	Yes	0.268	U	No	1.1		Yes	0.051	J	Yes	2.42		Yes	2.6
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.048	J	Yes	0.102	U	No	0.027	J	Yes	0.045	J	Yes	0.162		Yes	0.163
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.014	J	Yes	0.072	U	No	0.151		Yes	0.013	J	Yes	0.056	J	Yes	0.059
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.019	J	Yes	0.089	U	No	0.089	U	No	0.029	J	Yes	0.082	J	Yes	0.109

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	ɒtacosane mg/kg			Hexatricontane mg/kg			n-Decane mg/kg			n-Docosane mg/kg		
								Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes												
2008 LRC Program	08A-099	17.5	594943.33	747038.85	01-Oct-08	08A-0099-C2AS	Yes												
2008 LRC Program	08A-100	17.61	594727.78	747679.04	30-Sep-08	08A-0100-C2AS	Yes												
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes												
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes												
2008 LRC Program	08A-103	17.79	594472.88	748315.3	30-Sep-08	08A-0103-C2AS	Yes												
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes												
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes		Yes	0.338	J	Yes	0.514	U	No	0.351	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes		Yes	0.872	U	No	0.872	U	No	1.07		Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes		Yes	0.463	J	Yes	0.894	U	No	0.789	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes		Yes	0.355	J	Yes	0.516	U	No	0.475	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes		Yes	0.308	J	Yes	0.552	U	No	0.552		Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes		Yes	0.228	J	Yes	0.397	U	No	0.36	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes		Yes	0.079	J	Yes	0.085	U	No	0.084	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes		Yes	0.468	J	Yes	0.471	U	No	0.071	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes		Yes	0.385	J	Yes	0.209	J	Yes	0.411	U	No
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes		Yes	0.652		Yes	0.458	U	No	0.096	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes		Yes	0.381	U	No	0.217	J	Yes	0.381	U	No
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes		Yes	0.08	J	Yes	0.328		Yes	0.16	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes		Yes	0.083	J	Yes	0.087	U	No	0.037	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes		Yes	0.496	J	Yes	0.818		Yes	0.59	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes		Yes	0.4	J	Yes	0.468	U	No	0.496		Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes		Yes	0.128	J	Yes	0.083	J	Yes	0.468		Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes		Yes	0.067	J	Yes	0.037	J	Yes	0.272		Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	J	Yes	9.8	J	Yes	2.75	J	Yes	14.7	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes		Yes	0.185	J	Yes	0.218	U	No	0.142	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes		Yes	0.223		Yes	0.222	U	No	0.137	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	J	Yes	2.68	J	Yes	3.26	J	Yes	10.1	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes		Yes	0.694		Yes	0.461	U	No	0.218	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes		Yes	0.094		Yes	0.026	J	Yes	0.052	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes		Yes	0.078		Yes	0.073	U	No	0.132		Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No		Yes	0.305	J	Yes	0.408	U	No	0.078	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No		Yes	0.389	J	Yes	0.424	U	No	0.114	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	J	Yes	3.35	J	Yes	0.406	J	Yes	0.423	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	J	Yes	0.578	J	Yes	0.608	J	Yes	1.03	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No		Yes	0.09		Yes	0.072	U	No	0.028	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	J	Yes	6.05	J	Yes	1.35	J	Yes	5.03	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No		Yes	0.082	U	No	0.029	J	Yes	0.031	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No		Yes	0.043	J	Yes	0.075	U	No	0.031	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	J	Yes	2.21	J	Yes	1.56	UJ	No	1	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No		Yes	0.582		Yes	0.174	U	No	0.143	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No		Yes	0.176		Yes	0.09	U	No	0.042	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No		Yes	0.589		Yes	0.147	U	No	0.14	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		Yes	0.537		Yes	0.268	U	No	0.139	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No		Yes	0.247		Yes	0.034	J	Yes	0.058	J	Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	J	Yes	0.155		Yes	0.072	U	No	0.028	J	Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No		Yes	0.089	U	No	0.089	U	No	0.043	J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	n-Henicosane mg/kg			n-Heptadecane mg/kg			n-Heptatriacontane mg/kg			n-Hexacosane mg/kg			n-Hexadecane mg/kg			n-N
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes																
2008 LRC Program	08A-099	17.5	594943.33	747038.85	01-Oct-08	08A-0099-C2AS	Yes																
2008 LRC Program	08A-100	17.61	594727.78	747679.04	30-Sep-08	08A-0100-C2AS	Yes																
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes																
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes																
2008 LRC Program	08A-103	17.79	594472.88	748315.3	30-Sep-08	08A-0103-C2AS	Yes																
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes																
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	0.132	J	Yes	0.32	J	Yes	0.192	J	Yes	0.443	J	Yes	0.4	J	Yes	0.147
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.279	J	Yes	1.21		Yes	0.872	U	No	1.09		Yes	1.13		Yes	0.872
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	0.232	J	Yes	0.796	J	Yes	0.206	J	Yes	0.845	J	Yes	0.985		Yes	0.894
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	0.119	J	Yes	0.611		Yes	0.178	J	Yes	0.597		Yes	0.607		Yes	0.163
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	0.16	J	Yes	0.482	J	Yes	0.185	J	Yes	0.494	J	Yes	0.527	J	Yes	0.208
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.096	J	Yes	0.416		Yes	0.397	U	No	0.347	J	Yes	0.509		Yes	0.397
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.048	J	Yes	0.074	J	Yes	0.041	J	Yes	0.098		Yes	0.071	J	Yes	0.051
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.148	J	Yes	0.159	J	Yes	0.471	U	No	0.074	J	Yes	0.104	J	Yes	0.471
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	1.43		Yes	0.978		Yes	0.411	U	No	1.34		Yes	1.13		Yes	0.207
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.224	J	Yes	0.183	J	Yes	0.458	U	No	0.091	J	Yes	0.18	J	Yes	0.458
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	1.24		Yes	0.827		Yes	0.381	U	No	1.07		Yes	0.963		Yes	0.17
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.075	J	Yes	0.185	J	Yes	0.201	U	No	0.5		Yes	0.263		Yes	0.053
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.053	J	Yes	0.064	J	Yes	0.048	J	Yes	0.081	J	Yes	0.043	J	Yes	0.037
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.221	J	Yes	0.613	U	No	0.613	U	No	0.928		Yes	0.891		Yes	0.319
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.135	J	Yes	0.461	J	Yes	0.194	J	Yes	0.57		Yes	0.591		Yes	0.14
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.186		Yes	0.352		Yes	0.093	J	Yes	0.385		Yes	0.551		Yes	0.226
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.069	J	Yes	0.241		Yes	0.048	J	Yes	0.191		Yes	0.305		Yes	0.115
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	3.58	J	Yes	14.5	J	Yes	1.4	J	Yes	12.1	J	Yes	18.3	J	Yes	2.5
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.061	J	Yes	0.154	J	Yes	0.088	J	Yes	0.186	J	Yes	0.202	J	Yes	0.218
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.109	J	Yes	0.167	J	Yes	0.152	J	Yes	0.266		Yes	0.119	J	Yes	0.107
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	16.1	J	Yes	18.8	J	Yes	1.51	J	Yes	9.99	J	Yes	23.8	J	Yes	4.49
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.596		Yes	0.369	J	Yes	0.461	U	No	0.503		Yes	0.523		Yes	0.165
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.146		Yes	0.153		Yes	0.025	J	Yes	0.149		Yes	0.198		Yes	0.074
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.265		Yes	0.472		Yes	0.028	J	Yes	0.103		Yes	0.354		Yes	0.496
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.097	J	Yes	0.408	U	No	0.092	J	Yes	0.222	J	Yes	0.16	J	Yes	0.408
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.212	J	Yes	0.176	J	Yes	0.096	J	Yes	0.29	J	Yes	0.264	J	Yes	0.424
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	0.928	J	Yes	1.72	J	Yes	0.658	J	Yes	2.15	J	Yes	0.903	J	Yes	0.341
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	0.803	UJ	No	2.79	J	Yes	1.46	J	Yes	2.88	J	Yes	3.98	J	Yes	0.613
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.041	J	Yes	0.063	J	Yes	0.043	J	Yes	0.057	J	Yes	0.061	J	Yes	0.044
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	2.7	J	Yes	6.34	J	Yes	3.01	J	Yes	8.57	J	Yes	7.19	J	Yes	1.58
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.042	J	Yes	0.108		Yes	0.058	J	Yes	0.139		Yes	0.059	J	Yes	0.041
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.02	J	Yes	0.063	J	Yes	0.055	J	Yes	0.066	J	Yes	0.064	J	Yes	0.021
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	0.806	J	Yes	1.94	J	Yes	0.94	J	Yes	1.72	J	Yes	0.637	J	Yes	4.26
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.266		Yes	0.135	J	Yes	0.049	J	Yes	0.252		Yes	0.292		Yes	2.25
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.05	J	Yes	0.071	J	Yes	0.09	U	No	0.044	J	Yes	0.062	J	Yes	1.41
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.186		Yes	0.185		Yes	0.147	U	No	0.154		Yes	0.287		Yes	1.01
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.121	J	Yes	0.098	J	Yes	0.067	J	Yes	0.245	J	Yes	0.109	J	Yes	1.28
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.123		Yes	0.047	J	Yes	0.102	U	No	0.098	J	Yes	0.177		Yes	1.11
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.032	J	Yes	0.072	U	No	0.072	U	No	0.033	J	Yes	0.025	J	Yes	0.681
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.048	J	Yes	0.038	J	Yes	0.089	U	No	0.048	J	Yes	0.076	J	Yes	1

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	onadecane mg/kg		n-Nonane mg/kg			n-Octacosane mg/kg			n-Octadecane mg/kg			n-Octane mg/kg		
								Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes														
2008 LRC Program	08A-099	17.5	594943.33	747038.85	01-Oct-08	08A-0099-C2AS	Yes														
2008 LRC Program	08A-100	17.61	594727.78	747679.04	30-Sep-08	08A-0100-C2AS	Yes														
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes														
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes														
2008 LRC Program	08A-103	17.79	594472.88	748315.3	30-Sep-08	08A-0103-C2AS	Yes														
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes														
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	J	Yes	0.514	U	No	0.254	J	Yes	2.77		Yes	0.514	U	No
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	U	No	0.872	U	No	0.733	J	Yes	8.67		Yes	0.872	U	No
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	U	No	0.894	U	No	0.444	J	Yes	5.01		Yes	0.894	U	No
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	J	Yes	0.516	U	No	0.369	J	Yes	4.59		Yes	0.516	U	No
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	J	Yes	0.552	U	No	0.4	J	Yes	3.23	J	Yes	0.552	U	No
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	U	No	0.397	U	No	0.295	J	Yes	4.58		Yes	0.397	U	No
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	J	Yes	0.085	U	No	0.12		Yes	0.594		Yes	0.085	U	No
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	U	No	0.471	U	No	0.112	J	Yes	0.471	U	No	0.471	U	No
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	J	Yes	0.411	U	No	1.03		Yes	0.123	J	Yes	0.411	U	No
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	U	No	0.458	U	No	0.166	J	Yes	1.42		Yes	0.458	U	No
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	J	Yes	0.381	U	No	0.929		Yes	19.7		Yes	0.381	U	No
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	J	Yes	0.201	U	No	0.385		Yes	2.53		Yes	0.201	U	No
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	J	Yes	0.087	U	No	0.058	J	Yes	0.232		Yes	0.087	U	No
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	J	Yes	0.223	J	Yes	0.613	U	No	4.03		Yes	0.613	U	No
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	J	Yes	0.468	U	No	0.67		Yes	5.99		Yes	0.468	U	No
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes		Yes	0.185	U	No	0.164	J	Yes	0.877		Yes	0.026	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes		Yes	0.083	U	No	0.089		Yes	2.3		Yes	0.083	U	No
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	J	Yes	2.08	J	Yes	10.9	J	Yes	222	J	Yes	4.54	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	U	No	0.218	U	No	0.141	J	Yes	2.47		Yes	0.218	U	No
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	J	Yes	0.222	U	No	0.324		Yes	1.12		Yes	0.222	U	No
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	J	Yes	4.77	UJ	No	9.38	J	Yes	286	J	Yes	4.77	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	J	Yes	0.461	U	No	0.369	J	Yes	4.06		Yes	0.461	U	No
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	U	No	0.074	U	No	0.073	J	Yes	0.893		Yes	0.074	U	No
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes		Yes	0.073	U	No	0.053	J	Yes	0.416		Yes	0.073	U	No
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	U	No	0.408	U	No	0.156	J	Yes	0.738		Yes	0.408	U	No
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	U	No	0.424	U	No	0.267	J	Yes	2.44		Yes	0.424	U	No
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	J	Yes	1	UJ	No	1.63	J	Yes	6.2	J	Yes	1	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	J	Yes	0.803	UJ	No	1.62	J	Yes	31.8	J	Yes	0.803	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	J	Yes	0.072	U	No	0.032	J	Yes	0.047	J	Yes	0.072	U	No
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	J	Yes	0.447	J	Yes	6.43	J	Yes	138	J	Yes	0.145	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	J	Yes	0.082	U	No	0.089		Yes	0.62		Yes	0.082	U	No
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	J	Yes	0.075	U	No	0.043	J	Yes	1.04		Yes	0.075	U	No
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	J	Yes	1.56	UJ	No	2.84	J	Yes	0.815	J	Yes	1.56	UJ	No
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No		Yes	0.174	U	No	0.238		Yes	0.174	U	No	0.174	U	No
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No		Yes	0.09	U	No	0.174		Yes	0.09	U	No	0.09	U	No
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No		Yes	0.147	U	No	0.173		Yes	0.147	U	No	0.147	U	No
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No		Yes	0.268	U	No	0.479		Yes	0.268	U	No	0.268	U	No
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No		Yes	0.102	U	No	0.172		Yes	0.102	U	No	0.102	U	No
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No		Yes	0.072	U	No	0.161		Yes	0.072	U	No	0.072	U	No
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No		Yes	0.089	U	No	0.154		Yes	0.089	U	No	0.089	U	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Nonacosane mg/kg			Nonatriacontane mg/kg			Norpristane mg/kg			n-Pentacosane mg/kg			n-Pentadecane mg/kg			n-Te
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes																
2008 LRC Program	08A-099	17.5	594943.33	747038.85	01-Oct-08	08A-0099-C2AS	Yes																
2008 LRC Program	08A-100	17.61	594727.78	747679.04	30-Sep-08	08A-0100-C2AS	Yes																
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes																
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes																
2008 LRC Program	08A-103	17.79	594472.88	748315.3	30-Sep-08	08A-0103-C2AS	Yes																
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes																
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	1.82		Yes	0.259	J	Yes	0.544	J	Yes	5.52		Yes	0.082	J	Yes	0.09
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.872	U	No	0.406	J	Yes	1.17		Yes	13.5		Yes	0.872	U	No	0.169
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	1.15		Yes	0.376	J	Yes	0.809	J	Yes	9.54		Yes	0.894	U	No	0.175
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	1.48		Yes	0.258	J	Yes	1.61		Yes	7.22		Yes	0.516	U	No	0.174
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	2.03		Yes	0.226	J	Yes	0.727		Yes	6.11		Yes	0.552	U	No	0.152
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	2.62		Yes	0.211	J	Yes	0.385	J	Yes	4.74		Yes	0.397	U	No	0.397
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.22		Yes	0.066	J	Yes	0.061	J	Yes	1.1		Yes	0.023	J	Yes	0.033
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	1.1		Yes	0.471	U	No	0.471	U	No	0.471	U	No	0.471	U	No	0.183
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	1.27		Yes	0.159	J	Yes	0.903		Yes	13.2		Yes	0.246	J	Yes	1.3
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.8		Yes	0.458	U	No	0.346	J	Yes	0.269	J	Yes	0.062	J	Yes	0.231
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	1.14		Yes	0.381	U	No	1.08		Yes	20.4		Yes	0.121	J	Yes	0.663
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	1.89		Yes	0.096	J	Yes	0.191	J	Yes	3.09		Yes	0.201	U	No	0.057
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.456		Yes	0.062	J	Yes	0.041	J	Yes	0.502		Yes	0.034	J	Yes	0.028
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	3.06		Yes	0.613	U	No	2.41		Yes	7.81		Yes	0.613	U	No	0.278
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	1.41		Yes	0.348	J	Yes	0.481		Yes	6.74		Yes	0.114	J	Yes	0.137
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	1.36		Yes	0.102	J	Yes	0.191		Yes	2.19		Yes	0.219		Yes	0.161
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	1.2		Yes	0.06	J	Yes	0.156		Yes	1.92		Yes	0.031	J	Yes	0.202
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	38.5	J	Yes	18.6	J	Yes	18.2	J	Yes	85.2	J	Yes	4.54	UJ	No	3.24
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.462		Yes	0.134	J	Yes	0.145	J	Yes	2.32		Yes	0.89		Yes	0.058
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	2.46		Yes	0.241		Yes	0.114	J	Yes	1.75		Yes	0.174	J	Yes	0.078
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	12.3	J	Yes	4.77	UJ	No	42.8	J	Yes	123	J	Yes	4.77	UJ	No	9.12
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.635		Yes	0.461	U	No	0.609		Yes	6.65		Yes	0.113	J	Yes	0.346
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.341		Yes	0.028	J	Yes	0.16		Yes	1.53		Yes	0.035	J	Yes	0.076
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.429		Yes	0.073	U	No	0.338		Yes	0.752		Yes	0.135		Yes	0.073
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.905		Yes	0.408	U	No	0.408	U	No	1.97		Yes	0.055	J	Yes	0.408
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	1.22		Yes	0.424	U	No	0.203	J	Yes	3.5		Yes	0.056	J	Yes	0.153
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	8.82	J	Yes	0.519	J	Yes	1.04	J	Yes	12.2	J	Yes	0.328	J	Yes	0.504
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	3.4	J	Yes	1.4	J	Yes	4.18	J	Yes	25.6	J	Yes	0.803	UJ	No	0.653
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.388		Yes	0.028	J	Yes	0.032	J	Yes	0.438		Yes	0.049	J	Yes	0.072
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	8.5	J	Yes	4.07	J	Yes	10.6	J	Yes	45.5	J	Yes	0.839	UJ	No	4.35
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.937		Yes	0.048	J	Yes	0.082	J	Yes	0.849		Yes	0.031	J	Yes	0.082
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.297		Yes	0.031	J	Yes	0.08		Yes	0.918		Yes	0.012	J	Yes	0.075
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	26.1	J	Yes	1.07	J	Yes	0.606	J	Yes	4.97	J	Yes	0.722	J	Yes	0.796
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	3.64		Yes	0.188		Yes	0.13	J	Yes	0.222		Yes	0.032	J	Yes	0.143
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.766		Yes	0.046	J	Yes	0.035	J	Yes	0.09	U	No	0.033	J	Yes	0.028
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	2.23		Yes	0.11	J	Yes	0.208		Yes	0.147	U	No	0.072	J	Yes	0.091
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	6.18		Yes	0.094	J	Yes	0.268	U	No	0.73		Yes	0.032	J	Yes	0.098
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.969	J	Yes	0.102	U	No	0.117		Yes	0.102	U	No	0.016	J	Yes	0.054
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.455		Yes	0.072	U	No	0.033	J	Yes	0.072	U	No	0.072	U	No	0.018
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.453		Yes	0.089	U	No	0.072	J	Yes	0.089	U	No	0.018	J	Yes	0.029

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	etracosane mg/kg			n-Tetradecane mg/kg			n-Triacontane mg/kg			n-Tricosane mg/kg			Octatriacontane mg/kg			Pentatriacontane mg/kg		
								Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes																	
2008 LRC Program	08A-099	17.5	594943.33	747038.85	01-Oct-08	08A-0099-C2AS	Yes																	
2008 LRC Program	08A-100	17.61	594727.78	747679.04	30-Sep-08	08A-0100-C2AS	Yes																	
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes																	
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes																	
2008 LRC Program	08A-103	17.79	594472.88	748315.3	30-Sep-08	08A-0103-C2AS	Yes																	
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes																	
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	J	Yes	0.079	J	Yes	0.459	J	Yes	1.16		Yes	0.326	J	Yes	0.276	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	J	Yes	0.218	J	Yes	0.872	U	No	4.34		Yes	0.636	J	Yes	0.872	U	No
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	J	Yes	0.149	J	Yes	0.894	U	No	3.83		Yes	0.533	J	Yes	0.209	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	J	Yes	0.084	J	Yes	0.544		Yes	1.75		Yes	0.351	J	Yes	0.275	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	J	Yes	0.09	J	Yes	0.566		Yes	1.46		Yes	0.413	J	Yes	0.258	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	U	No	0.397	U	No	0.292	J	Yes	1.38		Yes	0.27	J	Yes	0.079	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	J	Yes	0.018	J	Yes	0.133		Yes	0.229		Yes	0.086		Yes	0.068	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	J	Yes	0.471	U	No	0.204	J	Yes	0.085	J	Yes	0.13	J	Yes	0.181	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes		Yes	0.372	J	Yes	0.382	J	Yes	0.411	U	No	0.401	J	Yes	0.178	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	J	Yes	0.458	U	No	0.169	J	Yes	0.07	J	Yes	0.131	J	Yes	0.147	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes		Yes	0.232	J	Yes	0.381	U	No	0.381	U	No	0.275	J	Yes	0.381	U	No
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	J	Yes	0.043	J	Yes	0.255		Yes	0.602		Yes	0.148	J	Yes	0.053	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	J	Yes	0.026	J	Yes	0.084	J	Yes	0.099		Yes	0.073	J	Yes	0.102		Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	J	Yes	0.19	J	Yes	1.02		Yes	1.67		Yes	0.529	J	Yes	0.54	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	J	Yes	0.127	J	Yes	0.607		Yes	1.5		Yes	0.453	J	Yes	0.319	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	J	Yes	0.242		Yes	0.193		Yes	0.808		Yes	0.152	J	Yes	0.101	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes		Yes	0.034	J	Yes	0.177		Yes	1.02		Yes	0.097		Yes	0.063	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	J	Yes	5.84	J	Yes	7.57	J	Yes	30.3	J	Yes	2.84	J	Yes	4.54	UJ	No
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	J	Yes	0.218	U	No	0.239		Yes	0.539		Yes	0.175	J	Yes	0.092	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	J	Yes	0.056	J	Yes	0.303		Yes	0.401		Yes	0.139	J	Yes	0.595		Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	J	Yes	58.4	J	Yes	10.2	J	Yes	42.9	J	Yes	3.57	J	Yes	4.8	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	J	Yes	0.13	J	Yes	0.155	J	Yes	0.461	U	No	0.2	J	Yes	0.192	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	U	No	0.041	J	Yes	0.037	J	Yes	0.074	U	No	0.064	J	Yes	0.054	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	U	No	0.09		Yes	0.051	J	Yes	0.055	J	Yes	0.049	J	Yes	0.057	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	U	No	0.408	U	No	0.148	J	Yes	0.09	J	Yes	0.122	J	Yes	0.15	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	J	Yes	0.424	U	No	0.148	J	Yes	0.424	U	No	0.163	J	Yes	0.195	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	J	Yes	0.162	J	Yes	1.75	J	Yes	0.543	J	Yes	0.943	J	Yes	1.62	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	J	Yes	5.68	J	Yes	1.85	J	Yes	8.72	J	Yes	1.15	J	Yes	1.13	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	U	No	0.035	J	Yes	0.047	J	Yes	0.023	J	Yes	0.052	J	Yes	0.069	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	J	Yes	31.4	J	Yes	7.33	J	Yes	17.5	J	Yes	1.45	J	Yes	3.9	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	U	No	0.017	J	Yes	0.12		Yes	0.032	J	Yes	0.06	J	Yes	0.146		Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	U	No	0.014	J	Yes	0.05	J	Yes	0.172		Yes	0.04	J	Yes	0.054	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	J	Yes	0.394	J	Yes	3.04	J	Yes	1.6	J	Yes	1.7	J	Yes	15.4	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	J	Yes	0.056	J	Yes	0.132	J	Yes	0.319		Yes	0.099	J	Yes	0.57		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	J	Yes	0.028	J	Yes	0.031	J	Yes	0.037	J	Yes	0.031	J	Yes	0.173		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	J	Yes	0.052	J	Yes	0.072	J	Yes	0.146	J	Yes	0.057	J	Yes	0.271		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	J	Yes	0.268	U	No	0.269		Yes	0.182	J	Yes	0.16	J	Yes	2.18		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	J	Yes	0.028	J	Yes	0.102	U	No	0.131		Yes	0.102	U	No	0.133		Yes
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	J	Yes	0.072	U	No	0.023	J	Yes	0.018	J	Yes	0.072	U	No	0.037	J	Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	J	Yes	0.031	J	Yes	0.02	J	Yes	0.056	J	Yes	0.089	U	No	0.089	U	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Tetracontane mg/kg			Tetratriacontane mg/kg			Tridecane mg/kg			Tritriacontane mg/kg			Total petroleum hydrocarbons mg/kg			Total saturated hy mg/kg	
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes																	
2008 LRC Program	08A-099	17.5	594943.33	747038.85	01-Oct-08	08A-0099-C2AS	Yes																	
2008 LRC Program	08A-100	17.61	594727.78	747679.04	30-Sep-08	08A-0100-C2AS	Yes																	
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes																	
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes																	
2008 LRC Program	08A-103	17.79	594472.88	748315.3	30-Sep-08	08A-0103-C2AS	Yes																	
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes																	
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	0.242	J	Yes	1.68		Yes	0.514	U	No	0.681		Yes	1350		Yes	26.2	
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	0.494	J	Yes	0.839	J	Yes	0.872	U	No	1.85		Yes	2060		Yes	52.3	
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	0.484	J	Yes	0.986		Yes	0.894	U	No	2.02		Yes	1990		Yes	43.3	
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	0.33	J	Yes	1.26		Yes	0.516	U	No	1.23		Yes	1580		Yes	35.8	
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	0.291	J	Yes	1.17		Yes	0.552	U	No	1.32		Yes	1290		Yes	32.4	
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	0.268	J	Yes	0.296	J	Yes	0.397	U	No	0.718		Yes	960		Yes	23.3	
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	0.088		Yes	0.218		Yes	0.085	U	No	0.339		Yes	261		Yes	5.49	
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	0.471	U	No	0.254	J	Yes	0.145	J	Yes	0.367	J	Yes	493		Yes	6.86	
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	0.314	J	Yes	0.513		Yes	0.984		Yes	1.73		Yes	1590		Yes	41.1	
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	0.177	J	Yes	0.288	J	Yes	0.266	J	Yes	1.84		Yes	696		Yes	10	
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	0.44		Yes	0.668		Yes	1.01		Yes	1.36		Yes	1670		Yes	65.9	
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	0.154	J	Yes	0.176	J	Yes	0.201	U	No	0.545		Yes	491		Yes	15.1	
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	0.052	J	Yes	0.195		Yes	0.087	U	No	0.323		Yes	223		Yes	4.11	
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	0.345	J	Yes	2.04		Yes	0.213	J	Yes	1.8		Yes	3550		Yes	51.3	
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	0.274	J	Yes	1.16		Yes	0.16	J	Yes	1.64		Yes	1310		Yes	34.5	
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	0.139	J	Yes	0.224		Yes	0.204		Yes	0.351		Yes	367		Yes	13.2	
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	0.08	J	Yes	0.107		Yes	0.034	J	Yes	0.282		Yes	314		Yes	11.8	
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	5.49	J	Yes	22	J	Yes	4.48	J	Yes	6.97	J	Yes	19300	J	Yes	751	J
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	0.124	J	Yes	0.405		Yes	0.218	U	No	0.59		Yes	453		Yes	13.1	
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	0.159	J	Yes	0.574		Yes	0.222	U	No	0.902		Yes	572		Yes	15.3	
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	2.6	J	Yes	44.4	J	Yes	22.3	J	Yes	6.68	J	Yes	24600	J	Yes	1040	J
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	0.19	J	Yes	0.21	J	Yes	0.544		Yes	0.507		Yes	1140		Yes	24.7	
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	0.058	J	Yes	0.065	J	Yes	0.394		Yes	0.168		Yes	238		Yes	6.73	
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	0.031	J	Yes	0.049	J	Yes	0.049	J	Yes	0.128		Yes	262	J	Yes	6.91	
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	0.408	U	No	0.207	J	Yes	0.408	U	No	0.476		Yes	511		Yes	8.71	
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	0.187	J	Yes	0.153	J	Yes	0.424	U	No	0.597		Yes	542		Yes	14.8	
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	0.829	J	Yes	2.44	J	Yes	1.59	J	Yes	4.25	J	Yes	3880	J	Yes	81.3	J
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	1.07	J	Yes	0.95	J	Yes	3.6	J	Yes	3.37	J	Yes	4870	J	Yes	152	J
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	0.053	J	Yes	0.064	J	Yes	0.025	J	Yes	0.097		Yes	144		Yes	2.6	
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	0.908	J	Yes	50.6	J	Yes	22.5	J	Yes	4.1	J	Yes	8650	J	Yes	499	J
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	0.067	J	Yes	0.102		Yes	0.082	U	No	0.354		Yes	250		Yes	5.72	
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	0.041	J	Yes	0.043	J	Yes	0.075	U	No	0.074	J	Yes	176		Yes	4.15	
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	0.854	J	Yes	1.56	UJ	No	1.56	UJ	No	18	J	Yes	4000	J	Yes	141	J
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	0.067	J	Yes	0.174	U	No	0.144	J	Yes	1.48		Yes	492		Yes	14.1	
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	0.09	U	No	0.09	U	No	0.032	J	Yes	0.468		Yes	169		Yes	4.85	
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	0.147	U	No	0.147	U	No	0.114	J	Yes	1.15		Yes	318		Yes	8.76	
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	0.09	J	Yes	0.268	U	No	0.268	U	No	3.13		Yes	612		Yes	22.8	
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	0.036	J	Yes	0.102	U	No	0.073	J	Yes	0.669		Yes	202		Yes	4.91	J
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	0.072	U	No	0.072	U	No	0.072	U	No	0.306		Yes	114		Yes	2.36	
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	0.032	J	Yes	0.089	U	No	0.039	J	Yes	0.265		Yes	161		Yes	2.8	

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	drocarb	Undecane			Total petroleum hydrocarbons (E			Total petroleum hydrocarbons (Purgeable)		
									mg/kg			mg/kg			mg/kg		
								Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes					1700	J	Yes			
2008 LRC Program	08A-099	17.5	594943.33	747038.85	01-Oct-08	08A-0099-C2AS	Yes					260	J	Yes			
2008 LRC Program	08A-100	17.61	594727.78	747679.04	30-Sep-08	08A-0100-C2AS	Yes					580	J	Yes			
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes								1.8	J	Yes
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes					1900	UJ	No			
2008 LRC Program	08A-103	17.79	594472.88	748315.3	30-Sep-08	08A-0103-C2AS	Yes					2500	J	Yes			
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes					2900	J	Yes			
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	Yes	0.225	J	Yes	824		Yes	3.96	U	No
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	Yes	0.872	U	No	931		Yes	2.77	U	No
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	Yes	0.894	U	No	1850		Yes	7.81	U	No
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	Yes	0.319	J	Yes	1240		Yes	3.61	U	No
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	Yes	0.187	J	Yes	1110	J	Yes	7.25	U	No
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	Yes	0.159	J	Yes	320		Yes	2.81	U	No
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	Yes	0.029	J	Yes	257		Yes	4.1	U	No
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	0.471	U	No	198		Yes	2.63	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	0.411	U	No	470		Yes	3.55	U	No
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	0.458	U	No	359		Yes	1.68	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	0.381	U	No	332		Yes	1.43	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	Yes	0.219		Yes	1140		Yes	2.69	U	No
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	Yes	0.087	U	No	150		Yes	3.28	U	No
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	Yes	2.6		Yes	2020		Yes	35.5	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	Yes	0.169	J	Yes	1960		Yes	2.96	U	No
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	Yes	0.146	J	Yes	308		Yes	2.32	U	No
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	Yes	0.07	J	Yes	428		Yes	3.51	U	No
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	Yes	4.52	J	Yes	5910	J	Yes	6.91	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	Yes	0.072	J	Yes	698		Yes	2.36	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	Yes	0.091	J	Yes	633		Yes	2.54	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	1.71	J	Yes	3330	J	Yes	204	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	0.461	U	No	721		Yes	1.33	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	0.074	U	No	721		Yes	2.79	U	No
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	0.073	U	No	85.4	J	Yes	2.8	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	0.408	U	No	382		Yes	1.2	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	0.424	U	No	250		Yes	1.26	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	0.319	J	Yes	966	J	Yes	10.9	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	0.27	J	Yes	1790	J	Yes	9.6	UJ	No
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	0.072	U	No	230		Yes	2.33	U	No
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	0.542	J	Yes	2170	J	Yes	116	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	0.082	U	No	106		Yes	3.15	U	No
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	0.075	U	No	61.8		Yes	2.36	U	No
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	1.56	UJ	No	1310	J	Yes	23	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	0.174	U	No	427		Yes	4.06	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	0.09	U	No	159		Yes	2.45	U	No
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	0.147	U	No	346		Yes	2.13	U	No
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	0.268	U	No	525		Yes	3.41	U	No
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	0.102	U	No	139		Yes	2.65	U	No
2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	0.072	U	No	131		Yes	3.12	U	No
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	0.089	U	No	84.1		Yes	2.48	U	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	SQT station	1,1,1-Trichloroethane			1,1,2,2-Tetrachloroethar			1,1,2-Trichloroethane			1,1-Dichloroethane			1,1-Dichloroethene		
									µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
									Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	No															
2008 LRC Program	08A-098	17.5	595083.93	747204.7	01-Oct-08	08A-0098-G3AS	Yes	No	1.8	U	No	1.8	UJ	No	1.8	U	No	1.8	U	No	1.8	U	No
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	No															
2008 LRC Program	08A-099	17.5	594944.64	747039.23	01-Oct-08	08A-0099-G3AS	Yes	No	2.2	U	No	2.2	U	No	2.2	U	No	2.2	U	No	2.2	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	No															
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes	No	1.1	U	No	1.1	U	No	1.1	U	No	1.1	U	No	1.1	U	No
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	No															
2008 LRC Program	08A-101	17.66	594378.96	747691.16	02-Oct-08	08A-0101-G2AS	Yes	No	2.5	UJ	No	2.5	UJ	No	2.5	UJ	No	2.5	UJ	No	2.5	UJ	No
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	No															
2008 LRC Program	08A-103	17.79	594475.92	748317.66	30-Sep-08	08A-0103-G2AS	Yes	No	1.3	U	No	1.3	U	No	1.3	U	No	1.3	U	No	1.3	U	No
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	No															
2008 LRC Program	08A-104	18.48	594047	751439.07	29-Sep-08	08A-0104-G2AS	Yes	No	2	UJ	No	2	UJ	No	2	UJ	No	2	UJ	No	2	UJ	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	1,2,3-Trichlorobenzene µg/kg			1,2,4-Trichlorobenzene µg/kg			1,2-Dibromo-3-chloroprop µg/kg			1,2-Dibromoethane µg/kg			1,2-Dichlorobenzene µg/kg			1,2-Dichloroethane µg/kg			1,2-Dichloropropane µg/kg		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes																					
2008 LRC Program	08A-098	17.5	595083.93	747204.7	01-Oct-08	08A-0098-G3AS	Yes	1.8	UJ	No	1.8	UJ	No	36	UJ	No	36	U	No	0.65	J	Yes	1.8	U	No	1.8	U	No
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes																					
2008 LRC Program	08A-099	17.5	594944.64	747039.23	01-Oct-08	08A-0099-G3AS	Yes	2.2	U	No	2.2	U	No	43	U	No	43	U	No	2.2	U	No	2.2	U	No	2.2	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes																					
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes	1.1	U	No	1.1	U	No	21	U	No	21	U	No	1.1	U	No	1.1	U	No	1.1	U	No
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes																					
2008 LRC Program	08A-101	17.66	594378.96	747691.16	02-Oct-08	08A-0101-G2AS	Yes	2.5	UJ	No	2.5	UJ	No	50	UJ	No	50	UJ	No	2.5	UJ	No	2.5	UJ	No	2.5	UJ	No
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes																					
2008 LRC Program	08A-103	17.79	594475.92	748317.66	30-Sep-08	08A-0103-G2AS	Yes	1.3	U	No	1.3	U	No	26	U	No	26	U	No	1.3	U	No	1.3	U	No	1.3	U	No
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes																					
2008 LRC Program	08A-104	18.48	594047	751439.07	29-Sep-08	08A-0104-G2AS	Yes	2	UJ	No	2	UJ	No	39	UJ	No	39	UJ	No	2	UJ	No	2	UJ	No	2	UJ	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	1,3-Dichlorobenzene µg/kg			1,4-Dichlorobenzene µg/kg		
								Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes						
2008 LRC Program	08A-098	17.5	595083.93	747204.7	01-Oct-08	08A-0098-G3AS	Yes	1.8	UJ	No	1.5	J	Yes
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes						
2008 LRC Program	08A-099	17.5	594944.64	747039.23	01-Oct-08	08A-0099-G3AS	Yes	2.2	U	No	0.75	J	Yes
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes						
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes	1.1	U	No	0.41	J	Yes
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes						
2008 LRC Program	08A-101	17.66	594378.96	747691.16	02-Oct-08	08A-0101-G2AS	Yes	2.5	UJ	No	1.9	J	Yes
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes						
2008 LRC Program	08A-103	17.79	594475.92	748317.66	30-Sep-08	08A-0103-G2AS	Yes	1.3	U	No	0.31	J	Yes
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes						
2008 LRC Program	08A-104	18.48	594047	751439.07	29-Sep-08	08A-0104-G2AS	Yes	2	UJ	No	0.67	J	Yes

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	1,4-Dioxane µg/kg			2-Hexanone µg/kg			4-Methyl-2-pentanone µg/kg			Acetone µg/kg			Benzene µg/kg			Bromochloromethane µg/kg			Bromodichloromethane µg/kg		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes	3400	UJ	No																	
2008 LRC Program	08A-098	17.5	595083.93	747204.7	01-Oct-08	08A-0098-G3AS	Yes				36	U	No	36	U	No	36	U	No	1.8	U	No	1.8	U	No	1.8	U	No
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes	170	U	No																	
2008 LRC Program	08A-099	17.5	594944.64	747039.23	01-Oct-08	08A-0099-G3AS	Yes				43	U	No	43	U	No	43	U	No	2.2	U	No	2.2	U	No	2.2	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes	170	U	No																	
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes				21	U	No	21	U	No	21	UJ	No	1.1	U	No	1.1	UJ	No	1.1	U	No
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	170	U	No																	
2008 LRC Program	08A-101	17.66	594378.96	747691.16	02-Oct-08	08A-0101-G2AS	Yes				50	UJ	No	50	UJ	No	50	UJ	No	2.5	UJ	No	2.5	UJ	No	2.5	UJ	No
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes	8500	UJ	No																	
2008 LRC Program	08A-103	17.79	594475.92	748317.66	30-Sep-08	08A-0103-G2AS	Yes				26	U	No	26	U	No	26	U	No	1.3	U	No	1.3	U	No	1.3	U	No
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	370	UJ	No																	
2008 LRC Program	08A-104	18.48	594047	751439.07	29-Sep-08	08A-0104-G2AS	Yes				39	UJ	No	39	UJ	No	39	UJ	No	2	UJ	No	2	UJ	No	2	UJ	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Bromoform µg/kg			Bromomethane µg/kg			Carbon disulfide µg/kg			Carbon tetrachloride µg/kg			Chlorobenzene µg/kg			Chloroethane µg/kg			Chloroform µg/kg		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes																					
2008 LRC Program	08A-098	17.5	595083.93	747204.7	01-Oct-08	08A-0098-G3AS	Yes	1.8	U	No	4.4	U	No	0.63	J	Yes	1.8	U	No	1.8	U	No	1.8	U	No	1.8	U	No
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes																					
2008 LRC Program	08A-099	17.5	594944.64	747039.23	01-Oct-08	08A-0099-G3AS	Yes	2.2	U	No	5.4	U	No	0.24	J	Yes	2.2	U	No	2.2	U	No	2.2	U	No	2.2	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes																					
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes	1.1	U	No	2.7	U	No	0.1	J	Yes	1.1	U	No	1.1	U	No	1.1	U	No	1.1	U	No
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes																					
2008 LRC Program	08A-101	17.66	594378.96	747691.16	02-Oct-08	08A-0101-G2AS	Yes	2.5	UJ	No	6.2	UJ	No	0.54	J	Yes	2.5	UJ	No	2.5	UJ	No	2.5	UJ	No	2.5	UJ	No
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes																					
2008 LRC Program	08A-103	17.79	594475.92	748317.66	30-Sep-08	08A-0103-G2AS	Yes	1.3	U	No	3.3	U	No	1.3	U	No	1.3	U	No	1.3	U	No	1.3	U	No	1.3	U	No
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes																					
2008 LRC Program	08A-104	18.48	594047	751439.07	29-Sep-08	08A-0104-G2AS	Yes	2	UJ	No	4.8	UJ	No	2	UJ	No	2	UJ	No	2	UJ	No	2	UJ	No	2	UJ	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Chloromethane µg/kg			cis-1,2-Dichloroethylen µg/kg			cis-1,3-Dichloropropen µg/kg			Cyclohexane µg/kg			Dibromochloromethan µg/kg			Dichlorodifluoromethan µg/kg			Ethylbenzene µg/kg		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes																					
2008 LRC Program	08A-098	17.5	595083.93	747204.7	01-Oct-08	08A-0098-G3AS	Yes	1.8	UJ	No	1.8	U	No	1.8	U	No	1.8	U	No	1.8	U	No	1.8	U	No	1.8	U	No
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes																					
2008 LRC Program	08A-099	17.5	594944.64	747039.23	01-Oct-08	08A-0099-G3AS	Yes	2.2	U	No	2.2	U	No	2.2	U	No	2.2	U	No	2.2	U	No	2.2	U	No	2.2	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes																					
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes	1.1	U	No	1.1	U	No	1.1	U	No	1.1	U	No	1.1	U	No	1.1	U	No	1.1	U	No
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes																					
2008 LRC Program	08A-101	17.66	594378.96	747691.16	02-Oct-08	08A-0101-G2AS	Yes	2.5	UJ	No	2.5	UJ	No	2.5	UJ	No	2.5	UJ	No	2.5	UJ	No	2.5	UJ	No	2.5	UJ	No
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes																					
2008 LRC Program	08A-103	17.79	594475.92	748317.66	30-Sep-08	08A-0103-G2AS	Yes	1.3	U	No	1.3	U	No	1.3	U	No	1.3	U	No	1.3	U	No	1.3	U	No	1.3	U	No
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes																					
2008 LRC Program	08A-104	18.48	594047	751439.07	29-Sep-08	08A-0104-G2AS	Yes	2	UJ	No	2	UJ	No	2	UJ	No	2	UJ	No	2	UJ	No	2	UJ	No	2	UJ	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Isopropylbenzene µg/kg			m, p-Xylene µg/kg			Methyl acetate µg/kg			Methyl tert-butyl ether (MT µg/kg			Methylcyclohexane µg/kg			Methylene chloride µg/kg			o-Xylene µg/kg		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes																					
2008 LRC Program	08A-098	17.5	595083.93	747204.7	01-Oct-08	08A-0098-G3AS	Yes	36	U	No	1.8	U	No	1.8	U	No	0.53	J	Yes	1.8	U	No	18	U	No	1.8	U	No
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes																					
2008 LRC Program	08A-099	17.5	594944.64	747039.23	01-Oct-08	08A-0099-G3AS	Yes	43	U	No	2.2	U	No	2.2	U	No	2.2	U	No	2.2	U	No	22	U	No	2.2	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes																					
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes	21	U	No	1.1	U	No	1.1	U	No	0.17	J	Yes	1.1	U	No	11	U	No	1.1	U	No
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes																					
2008 LRC Program	08A-101	17.66	594378.96	747691.16	02-Oct-08	08A-0101-G2AS	Yes	50	UJ	No	2.5	UJ	No	2.5	UJ	No	0.67	J	Yes	2.5	UJ	No	25	UJ	No	2.5	UJ	No
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes																					
2008 LRC Program	08A-103	17.79	594475.92	748317.66	30-Sep-08	08A-0103-G2AS	Yes	26	U	No	1.3	U	No	1.3	U	No	0.24	J	Yes	1.3	U	No	13	U	No	1.3	U	No
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes																					
2008 LRC Program	08A-104	18.48	594047	751439.07	29-Sep-08	08A-0104-G2AS	Yes	39	UJ	No	2	UJ	No	2	UJ	No	2	UJ	No	2	UJ	No	20	UJ	No	2	UJ	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Styrene µg/kg			Tetrachloroethylene µg/kg			Toluene µg/kg			trans-1,2-Dichloroethene µg/kg			trans-1,3-Dichloropropene µg/kg			Trichloroethene µg/kg			Trichlorofluoromethane µg/kg		
								Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes																					
2008 LRC Program	08A-098	17.5	595083.93	747204.7	01-Oct-08	08A-0098-G3AS	Yes	1.8	U	No	0.82	J	Yes	1.8	U	No	1.8	U	No	1.8	U	No	1.8	U	No	1.8	U	No
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes																					
2008 LRC Program	08A-099	17.5	594944.64	747039.23	01-Oct-08	08A-0099-G3AS	Yes	2.2	U	No	2.2	U	No	2.2	U	No	2.2	U	No	2.2	U	No	2.2	U	No	2.2	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes																					
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes	1.1	U	No	1.1	U	No	1.1	U	No	1.1	U	No	1.1	U	No	1.1	U	No	1.1	U	No
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes																					
2008 LRC Program	08A-101	17.66	594378.96	747691.16	02-Oct-08	08A-0101-G2AS	Yes	2.5	UJ	No	1.8	J	Yes	2.5	UJ	No	2.5	UJ	No	2.5	UJ	No	2.5	UJ	No	2.5	UJ	No
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes																					
2008 LRC Program	08A-103	17.79	594475.92	748317.66	30-Sep-08	08A-0103-G2AS	Yes	1.3	U	No	1.3	U	No	1.3	U	No	1.3	U	No	1.3	U	No	1.3	U	No	1.3	U	No
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes																					
2008 LRC Program	08A-104	18.48	594047	751439.07	29-Sep-08	08A-0104-G2AS	Yes	2	UJ	No	2	UJ	No	2	UJ	No	2	UJ	No	2	UJ	No	2	UJ	No	2	UJ	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	Vinyl chloride µg/kg Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595074.88	747203.34	01-Oct-08	08A-0098-C1AS	Yes			
2008 LRC Program	08A-098	17.5	595083.93	747204.7	01-Oct-08	08A-0098-G3AS	Yes	1.8	U	No
2008 LRC Program	08A-099	17.5	594943.37	747038.19	01-Oct-08	08A-0099-C1AS	Yes			
2008 LRC Program	08A-099	17.5	594944.64	747039.23	01-Oct-08	08A-0099-G3AS	Yes	2.2	U	No
2008 LRC Program	08A-100	17.61	594727.81	747680.59	30-Sep-08	08A-0100-C1AS	Yes			
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes	1.1	U	No
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes			
2008 LRC Program	08A-101	17.66	594378.96	747691.16	02-Oct-08	08A-0101-G2AS	Yes	2.5	UJ	No
2008 LRC Program	08A-103	17.79	594471.02	748317.05	30-Sep-08	08A-0103-C1AS	Yes			
2008 LRC Program	08A-103	17.79	594475.92	748317.66	30-Sep-08	08A-0103-G2AS	Yes	1.3	U	No
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes			
2008 LRC Program	08A-104	18.48	594047	751439.07	29-Sep-08	08A-0104-G2AS	Yes	2	UJ	No

BERA Sediment Chemistry Data from Above Dundee Dam

Event	Location	RM	X	Y	Sample Date	Sample ID	Included in Background	SQT Station	Acid volatile sulfide (AVS umol/g			Ammonia mg/kg			Cyanide mg/kg			Nitrogen, Kjeldahl mg/kg			Phosphorus mg/kg		
									Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
2008 LRC Program	08A-098	17.5	595078.09	747202.48	01-Oct-08	08A-0098-C2AS	Yes	No							0.18	U	No						
2008 LRC Program	08A-098	17.5	595083.93	747204.7	01-Oct-08	08A-0098-G3AS	Yes	No															
2008 LRC Program	08A-099	17.5	594943.33	747038.85	01-Oct-08	08A-0099-C2AS	Yes	No							0.25	U	No						
2008 LRC Program	08A-099	17.5	594944.64	747039.23	01-Oct-08	08A-0099-G3AS	Yes	No															
2008 LRC Program	08A-100	17.61	594727.78	747679.04	30-Sep-08	08A-0100-C2AS	Yes	No				10.7		Yes	0.24	U	No	371	J	Yes	285		Yes
2008 LRC Program	08A-100	17.61	594727.38	747677.03	30-Sep-08	08A-0100-G2AS	Yes	No	0.02	U	No												
2008 LRC Program	08A-100	17.61	594727.14	747677.65	30-Sep-08	08A-0100-G3AS	Yes	No															
2008 LRC Program	08A-101	17.66	594378.24	747692.06	02-Oct-08	08A-0101-C2AS	Yes	No							0.28	J	Yes						
2008 LRC Program	08A-101	17.66	594378.96	747691.16	02-Oct-08	08A-0101-G2AS	Yes	No															
2008 LRC Program	08A-103	17.79	594472.88	748315.3	30-Sep-08	08A-0103-C2AS	Yes	No							0.17	J	Yes						
2008 LRC Program	08A-103	17.79	594475.92	748317.66	30-Sep-08	08A-0103-G2AS	Yes	No															
2008 LRC Program	08A-104	18.48	594043.44	751438.15	29-Sep-08	08A-0104-C2AS	Yes	No							0.24	J	Yes						
2008 LRC Program	08A-104	18.48	594047	751439.07	29-Sep-08	08A-0104-G2AS	Yes	No															
2012 Benthic Background Sediment Sampling	UPRT18A	17.65	594331	747591	26-Nov-12	UPRT18A	Yes	No	0.018	J	Yes	8.92		Yes	0.59	J	Yes	1550		Yes	1100	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18B	17.68	594482	747840	26-Nov-12	UPRT18B	Yes	No	0.164		Yes	0.42	J	Yes	0.1	J	Yes	640		Yes	610	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18C	17.74	594469	748115	26-Nov-12	UPRT18C	Yes	No	0.83		Yes	8.95		Yes	0.14	J	Yes	1680		Yes	780	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18D	17.81	594346	748447	26-Nov-12	UPRT18D	Yes	No	1.6		Yes	11.5		Yes	0.56	J	Yes	1150		Yes	700	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18E	17.86	594479	748692	26-Nov-12	UPRT18E	Yes	No	0.84		Yes	14.3		Yes	0.39	J	Yes	1490		Yes	730	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18F	17.94	594488	749138	26-Nov-12	UPRT18F	Yes	No	0.008	J	Yes	2.17		Yes	0.13	J	Yes	340		Yes	420	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18G	17.96	594738	749154	26-Nov-12	UPRT18G	Yes	No	0.008	J	Yes	1.37		Yes	0.14	J	Yes	873		Yes	300	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18H	17.68	594662	747963	12-Nov-12	UPRT18H	Yes	Yes	0.445		Yes	26.7		Yes	0.53	J	Yes	790		Yes	500		Yes
2012 Benthic Background Sediment Sampling	UPRT18I	17.64	594567	747742	12-Nov-12	UPRT18I	Yes	Yes	0.028	J	Yes	4.4		Yes	0.12	J	Yes	506		Yes	360		Yes
2012 Benthic Background Sediment Sampling	UPRT18J	17.73	594284	748072	12-Nov-12	UPRT18J	Yes	Yes	0.2	J	Yes	11.1		Yes	0.76	J	Yes	570	J	Yes	660	J	Yes
2012 Benthic Background Sediment Sampling	UPRT18K	18.04	594500	749655	12-Nov-12	UPRT18K	Yes	Yes	0.039	U	No	2.78		Yes	0.46	J	Yes	257		Yes	420		Yes
2012 Benthic Background Sediment Sampling	UPRT19A	18.09	594527	749966	26-Nov-12	UPRT19A	Yes	No	0.027	U	No	0.94		Yes	0.32	J	Yes	324		Yes	700	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19B	18.23	594672	750596	26-Nov-12	UPRT19B	Yes	No	0.68		Yes	3.32		Yes	0.11	J	Yes	250		Yes	370	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19C	18.46	594150	751387	26-Nov-12	UPRT19C	Yes	No	9.8	J	Yes	21.2	J	Yes	2.55	J	Yes	1850		Yes	1090	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19D	18.51	593844	751400	26-Nov-12	UPRT19D	Yes	No	0.03	U	No	1.23		Yes	0.18	J	Yes	840		Yes	560	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19E	18.57	593777	751820	26-Nov-12	UPRT19E	Yes	No	0.025	U	No	1.69		Yes	0.13	J	Yes	286		Yes	330	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19F	18.61	593626	752025	27-Nov-12	UPRT19F	Yes	No	0.034	U	No	0.85		Yes	0.16	J	Yes	208		Yes	350	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19G	18.64	593353	751982	27-Nov-12	UPRT19G	Yes	No	2.5	J	Yes	50.3	J	Yes	20.2	J	Yes	3120	J	Yes	2000	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19H	18.68	593313	752255	27-Nov-12	UPRT19H	Yes	No	0.03	U	No	1.01		Yes	0.2	J	Yes	236		Yes	580	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19I	18.89	593270	753419	27-Nov-12	UPRT19I	Yes	No	1.98		Yes	13.4		Yes	0.33		Yes	320		Yes	730	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19J	18.17	594891	750287	13-Nov-12	UPRT19J	Yes	Yes	15.3	J	Yes	78.8	J	Yes	50.7	J	Yes	5020	J	Yes	2660	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19K	18.28	594853	750827	13-Nov-12	UPRT19K	Yes	Yes	1.96	J	Yes	7.41		Yes	0.51	J	Yes	450		Yes	430	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19L	18.62	593691	752156	13-Nov-12	UPRT19L	Yes	Yes	0.011	J	Yes	2.61		Yes	0.16	J	Yes	174		Yes	1040	J	Yes
2012 Benthic Background Sediment Sampling	UPRT19M	18.84	593521	753134	13-Nov-12	UPRT19M	Yes	Yes	0.029	UJ	No	1.73		Yes	0.22	UJ	No	160		Yes	404	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20A	19.15	593933	754562	13-Nov-12	UPRT20A	No	Yes	0.17	J	Yes	25		Yes	0.31	J	Yes	450		Yes	500	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20B	19.16	593792	754732	13-Nov-12	UPRT20B	No	Yes	0.081	J	Yes	31.6		Yes	0.09	J	Yes	385		Yes	400	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20C	19.4	593704	755904	14-Nov-12	UPRT20C	No	Yes	0.462	J	Yes	118	J	Yes	1.39	J	Yes	3310	J	Yes	2830	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20D	19.46	593934	756211	14-Nov-12	UPRT20D	No	Yes	1.89	J	Yes	59.3	J	Yes	1.92	J	Yes	2530	J	Yes	1640	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20E	19.71	593573	757471	14-Nov-12	UPRT20E	No	Yes	0.027	U	No	5.4		Yes	0.09	J	Yes	177		Yes	446	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20F	19.77	593318	757805	14-Nov-12	UPRT20F	No	Yes	0.351	J	Yes	144	J	Yes	39.1	J	Yes	4110	J	Yes	1350	J	Yes
2012 Benthic Background Sediment Sampling	UPRT20G	19.94	593713	758634	14-Nov-12	UPRT20G	No	Yes	0.151		Yes	11		Yes	0.25	UJ	No	240		Yes	360	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21A	20.11	594215	759390	14-Nov-12	UPRT21A	No	Yes	0.315		Yes	4.66		Yes	0.17	J	Yes	201		Yes	340	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21B	20.19	594304	759819	15-Nov-12	UPRT21B	No	Yes	8.6	J	Yes	337	J	Yes	1.17	J	Yes	5460	J	Yes	1590	J	Yes
2012 Benthic Background Sediment Sampling	UPRT21C	20.31	594388	760379	15-Nov-12	UPRT21C	No	Yes	0.38		Yes	10.7		Yes	0.51	U	No	966		Yes	480		Yes
2012 Benthic Background Sediment Sampling	UPRT21D	20.48	593893	760965	15-Nov-12	UPRT21D	No	Yes	2.23		Yes	5.36		Yes	0.09	J	Yes	114		Yes	353		Yes
2012 Benthic Background Sediment Sampling	UPRT21E	20.59	593432	761295	15-Nov-12	UPRT21E	No	Yes	0.031	U	No	2.12		Yes	0.18	J	Yes	512		Yes	480		Yes
2012 Benthic Background Sediment Sampling	UPRT21F	20.71	592798	761474	15-Nov-12	UPRT21F	No	Yes	0.407		Yes	20.2		Yes	1.47	J	Yes	930		Yes	390		Yes
2012 Benthic Background Sediment Sampling	UPRT21G	20.87	591953	761465	15-Nov-12	UPRT21G	No	Yes	0.035	U	No	2.22		Yes	0.08	J	Yes	1060		Yes	450		Yes

2012 Benthic Background Sediment Sampling	UPRT22A	21.24	591076	763069	16-Nov-12	UPRT22A	No	Yes	0.044	U	No	2.52		Yes	0.24	J	Yes	442		Yes	530		Yes
2012 Benthic Background Sediment Sampling	UPRT22B	21.3	590985	763326	16-Nov-12	UPRT22B	No	Yes	0.028	U	No	1.4		Yes	0.22	U	No	135	J	Yes	292		Yes

Total sulfide		
mg/kg		
Value	Qual	Detect
26.4		Yes
16.5		Yes
18.9		Yes
207	J	Yes
31.6		Yes
212	J	Yes
26.2		Yes
14.5		Yes
45		Yes
51.2		Yes
90		Yes
1.01		Yes
8.3		Yes
35.7		Yes
49.6		Yes
7.3		Yes
3.31		Yes
5.1		Yes
10.3		Yes
691	J	Yes
14.3		Yes
4.73		Yes
12.2		Yes
384	J	Yes
2.99		Yes
82		Yes
2940	J	Yes
5.12		Yes
2.29		Yes
0.57	U	No
72		Yes
58.5		Yes
135	J	Yes
138	J	Yes
8.3		Yes
1940	J	Yes
5.28		Yes
1.5		Yes
370	J	Yes
51.9		Yes
6.7		Yes
3.03		Yes
123		Yes
0.94		Yes

28.2		Yes
0.55	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

					C1-Benzanthracene/chrysenes			C1-Dibenzothiophenes			C1-Fluorenes			C1-Phenanthrene/anthracenes		
					µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.733	J	Yes	1.12	J	Yes	1.72		Yes	3.09		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	1.48	U	No	1.21	J	Yes	2.04		Yes	2.62		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	1.48	U	No	1.68		Yes	3.96		Yes	4.88		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	1.48	U	No	1.26	J	Yes	2.26		Yes	3.05		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	1.49	U	No	2.14		Yes	3.9		Yes	6.49		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	0.442	J	Yes	0.7	J	Yes	0.988	J	Yes	1.7		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	1.49	U	No	0.79	J	Yes	1.14	J	Yes	1.89		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	1.49	U	No	0.414	J	Yes	0.305	J	Yes	0.457	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	1.47	U	No	0.504	J	Yes	0.328	J	Yes	0.621	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	1.47	U	No	0.967	J	Yes	1.87		Yes	2.8		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	1.48	U	No	0.768	J	Yes	1.08	J	Yes	1.82		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	1.49	U	No	1.08	J	Yes	1.86		Yes	2.48		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	1.49	U	No	2.02		Yes	4.13		Yes	6.14		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	1.49	U	No	1.3	J	Yes	2.42		Yes	3.34		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	1.49	U	No	1.96		Yes	3.64		Yes	6.25		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	1.48	U	No	0.825	J	Yes	1.13	J	Yes	1.76		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	1.47	U	No	1.06	J	Yes	1.39	J	Yes	2.44		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	1.49	U	No	0.439	J	Yes	0.304	J	Yes	1.49	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	1.48	U	No	0.582	J	Yes	0.417	J	Yes	0.721	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	1.49	U	No	0.992	J	Yes	2.46		Yes	2.93		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	1.49	U	No	1.03	J	Yes	2.12		Yes	3.07		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	0.367	J	Yes	0.96	J	Yes	1.29	J	Yes	2.06		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	1.47	U	No	1.47	U	No	1.47	U	No	1.47	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	1.48	U	No	1.48	U	No	1.48	U	No	1.48	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	1.49	U	No	0.327	J	Yes	0.306	J	Yes	0.454	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	1.48	U	No	0.644	J	Yes	0.81	J	Yes	1.51		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.736	J	Yes	0.959	J	Yes	1.43	J	Yes	2.51		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.742	U	No	1.15	J	Yes	1.95		Yes	2.55		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	0.742	U	No	1.84		Yes	4.04		Yes	5.48		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	0.742	U	No	1.28	J	Yes	2.33		Yes	3.18		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	0.745	U	No	2.05		Yes	3.77		Yes	6.37		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	0.561	J	Yes	0.75	J	Yes	1.04	J	Yes	1.72		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.741	U	No	0.912	J	Yes	1.25	J	Yes	2.14		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.745	U	No	0.425	J	Yes	0.305	J	Yes	0.589	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.737	U	No	0.536	J	Yes	0.365	J	Yes	0.662	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.74	U	No	0.979	J	Yes	2.16		Yes	2.86		Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	2.21		Yes	0.75	J	Yes	1.21	J	Yes	2.39		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	1.48	U	No	3.16		Yes	5.62		Yes	8.95		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	1.47	U	No	4.37		Yes	7.49		Yes	12.6		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	1.48	U	No	1.74		Yes	3.09		Yes	4.67		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	1.49	U	No	1.8		Yes	3.01		Yes	3.8		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	1.48	U	No	0.35	J	Yes	0.439	J	Yes	0.653	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	1.5	U	No	0.483	J	Yes	0.672	J	Yes	1.05	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	1.74		Yes	2.11		Yes	4.09		Yes	6.5		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	63.2		Yes	33.2		Yes	38.3		Yes	149		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	0.79	J	Yes	6.84		Yes	11.1		Yes	18.9		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	9.1		Yes	4.85		Yes	6.22		Yes	14.2		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.49	J	Yes	1.76		Yes	1.73		Yes	2.01		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	1.4	J	Yes	1.09	J	Yes	1.82		Yes	3.89		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	6.64		Yes	13.2		Yes	37.9		Yes	45.8		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	1.61		Yes	2.5		Yes	6.47		Yes	7.6		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	3.97		Yes	5.37		Yes	12.8		Yes	18.5		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	2.13		Yes	1.66		Yes	4.09		Yes	5.62		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	8.11		Yes	1.8		Yes	4.71		Yes	11.1		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	1.5	U	No	2.45		Yes	5.5		Yes	6.95		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	1.5	U	No	5.97		Yes	18.6		Yes	19.4		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	1.48	U	No	9.82		Yes	31.8		Yes	35.1		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	0.4	J	Yes	0.938	J	Yes	2.6		Yes	2.91		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	0.623	J	Yes	1.31	J	Yes	3.34		Yes	4.32		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	1.49	U	No	1.08	J	Yes	3.09		Yes	4.56		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	1.47	U	No	3.09		Yes	9.44		Yes	12.7		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	1.49	U	No	0.764	J	Yes	2.05		Yes	2.04		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	1.48	U	No	1.06	J	Yes	2.58		Yes	3.61		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	1.48	U	No	0.958	J	Yes	2.01		Yes	2.2		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	1.47	U	No	7.05		Yes	18.9		Yes	24		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	1.5		Yes	1.28	J	Yes	2.97		Yes	3.94		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	2.14		Yes	3.91		Yes	9.92		Yes	14.8		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	2.3		Yes	4.81		Yes	12.2		Yes	12.8		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	2.7		Yes	4.43		Yes	11.5		Yes	16.2		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	4.58		Yes	10.7		Yes	31.1		Yes	36.6		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	1.23	J	Yes	2.01	J	Yes	5.27		Yes	6.14		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	2.95		Yes	4.65		Yes	11.7		Yes	16.7		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	1.7		Yes	1.38	J	Yes	3.46		Yes	4.51		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	5.71		Yes	1.56	J	Yes	4.02		Yes	8.67		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	0.458	J	Yes	7.29		Yes	13.7		Yes	17.3		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	0.65	J	Yes	0.829	J	Yes	0.79	J	Yes	1.41	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	1.26	J	Yes	1.37	J	Yes	1.1	J	Yes	2.38		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	0.344	J	Yes	2.58		Yes	3.86		Yes	5.65		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	1.48	U	No	1.63		Yes	3.05		Yes	3.88		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.321	J	Yes	0.361	J	Yes	0.314	J	Yes	0.602	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	1.5	U	No	0.424	J	Yes	0.34	J	Yes	0.424	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					C1-Pyrene/fluoranthenes			C2-Benzanthracene/chrysenes			C2-Dibenzothiophenes			C2-Fluorenes			C2-Naphthalenes		
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	1.93		Yes	0.649	J	Yes	0.818	J	Yes	1.12	J	Yes	8.53		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	1.16	J	Yes	1.48	U	No	0.66	J	Yes	1.18	J	Yes	9.94		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	1.82		Yes	1.14	J	Yes	1.06	J	Yes	1.6		Yes	16.9		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	1.36	J	Yes	1.48	U	No	0.702	J	Yes	1.09	J	Yes	15.8		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	1.52		Yes	1.49	U	No	1.13	J	Yes	1.79		Yes	21.9		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	1.29	J	Yes	1.47	U	No	0.511	J	Yes	0.854	J	Yes	5.01		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.765	J	Yes	1.49	U	No	0.497	J	Yes	0.766	J	Yes	5.49		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.968	J	Yes	1.49	U	No	0.332	J	Yes	1.49	U	No	1.66	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.96	J	Yes	1.47	U	No	0.349	J	Yes	1.47	U	No	2.2	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	0.797	J	Yes	1.47	U	No	0.696	J	Yes	1.16	J	Yes	14		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	1.03	J	Yes	1.48	U	No	0.471	J	Yes	0.76	J	Yes	6.07		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	1.09	J	Yes	1.49	U	No	0.592	J	Yes	1.01	J	Yes	9.74		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	1.66		Yes	1.49	U	No	1.15	J	Yes	1.67		Yes	21.5		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	1.48	J	Yes	1.49	U	No	0.659	J	Yes	1.06	J	Yes	17.5		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	1.48	J	Yes	1.49	U	No	1.15	J	Yes	1.58		Yes	21		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	1.05	J	Yes	1.48	U	No	0.6	J	Yes	0.815	J	Yes	6.24		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	1.06	J	Yes	1.47	U	No	0.564	J	Yes	0.873	J	Yes	7.49		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.905	J	Yes	1.49	U	No	0.29	J	Yes	1.49	U	No	1.61	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.861	J	Yes	1.48	U	No	0.366	J	Yes	0.568	J	Yes	2.44	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	1.09	J	Yes	1.49	U	No	0.902	J	Yes	1.8		Yes	16.4		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	1.14	J	Yes	1.49	U	No	0.677	J	Yes	1.38	J	Yes	9.48		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	2.04		Yes	1.48	U	No	0.665	J	Yes	1.03	J	Yes	4.6		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.541	J	Yes	1.47	U	No	1.47	U	No	1.47	U	No	0.909	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	1.48	U	No	1.48	U	No	0.271	J	Yes	1.48	U	No	2.46	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.631	J	Yes	1.49	U	No	0.343	J	Yes	1.49	U	No	1	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	1.1	J	Yes	1.48	U	No	0.508	J	Yes	0.896	J	Yes	3.46		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	1.52	J	Yes	0.69	J	Yes	0.66	J	Yes	0.956	J	Yes	7.41		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	1.13	J	Yes	0.742	U	No	0.627	J	Yes	1.1	J	Yes	9.84		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	1.74		Yes	0.953	J	Yes	1.1	J	Yes	1.63		Yes	19.1		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	1.41	J	Yes	0.742	U	No	0.683	J	Yes	1.08	J	Yes	16.6		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	1.5	J	Yes	0.745	U	No	1.14	J	Yes	1.68		Yes	21.4		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	1.19	J	Yes	0.737	U	No	0.547	J	Yes	0.838	J	Yes	5.5		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.898	J	Yes	0.741	U	No	0.527	J	Yes	0.814	J	Yes	6.39		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.939	J	Yes	0.745	U	No	0.313	J	Yes	0.745	U	No	1.64	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.919	J	Yes	0.737	U	No	0.356	J	Yes	0.666	J	Yes	2.3	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.94	J	Yes	0.74	U	No	0.797	J	Yes	1.47	J	Yes	15.2		Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	3.88		Yes	1.56		Yes	1.24	J	Yes	1.06	J	Yes	7.02		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	3.8		Yes	1.48	U	No	2.14		Yes	3.19		Yes	16		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	1.9		Yes	1.47	U	No	1.79		Yes	2.66		Yes	15.7		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	1.79		Yes	1.48	U	No	1.3	J	Yes	1.79		Yes	7.24		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	1.48	J	Yes	1.49	U	No	1.14	J	Yes	1.6		Yes	6.72		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.506	J	Yes	1.48	U	No	0.493	J	Yes	0.576	J	Yes	0.903	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.674	J	Yes	1.5	U	No	0.683	J	Yes	0.819	J	Yes	1.83	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	5.46		Yes	1.66		Yes	2.5		Yes	2.85		Yes	9.46		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	126		Yes	34.8		Yes	33.8		Yes	31.2		Yes	75.4		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	5.36		Yes	1.49	U	No	3.97		Yes	5.86		Yes	34.6		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	16.2		Yes	6.22		Yes	4.71		Yes	5.04		Yes	19.1		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	1.98		Yes	1.48	U	No	1.32	J	Yes	1.65		Yes	4.53		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	3.63		Yes	1.03	J	Yes	1.68		Yes	2.42		Yes	5.43		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	17.2		Yes	4.1		Yes	8.84		Yes	16.8		Yes	529		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	4.45		Yes	1.48	U	No	2.2		Yes	3.68		Yes	50.4		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	9.74		Yes	2.96		Yes	5.3		Yes	8.04		Yes	104		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	4.81		Yes	2.12		Yes	2.92		Yes	4		Yes	40.1		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	12.5		Yes	4.84		Yes	4.22		Yes	4.8		Yes	36.5		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	2.95		Yes	1.5	U	No	2.31		Yes	3.64		Yes	38.7		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	4.93		Yes	1.5	U	No	3.93		Yes	8.62		Yes	257		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	6.76		Yes	1.48	U	No	5.57		Yes	12.5		Yes	290		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	1.51		Yes	1.5	U	No	0.933	J	Yes	1.96		Yes	18.1		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	1.79		Yes	1.5	U	No	1.26	J	Yes	2.59		Yes	22.3		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	1.59		Yes	1.49	U	No	1.22	J	Yes	2.53		Yes	17.1		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	5.44		Yes	1.47	U	No	3.56		Yes	5.08		Yes	71		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	1.79		Yes	1.49	U	No	1.49	U	No	1.95		Yes	14.8		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	2.12		Yes	1.48	U	No	1.68		Yes	2.34		Yes	19.3		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	2.16		Yes	1.48	U	No	1.96		Yes	1.95		Yes	16.7		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	6.39		Yes	1.47	U	No	4.9		Yes	10		Yes	144		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	2.77		Yes	1.5	U	No	1.65		Yes	2.4		Yes	23.6		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	7.23		Yes	1.48	U	No	3.94		Yes	6.38		Yes	62.2		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	5.86		Yes	2.25		Yes	3.72		Yes	6.36		Yes	127		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	7.4		Yes	1.87		Yes	3.86		Yes	6.85		Yes	82.1		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	12.9		Yes	2.93		Yes	7.12		Yes	13.9		Yes	434		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	3.54		Yes	0.743	U	No	1.81	J	Yes	3.15		Yes	40.4		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	8.39		Yes	2.26		Yes	4.75		Yes	7.11		Yes	93.6		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	3.87		Yes	1.69		Yes	2.25		Yes	3.36		Yes	32.3		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	9.13		Yes	3.51		Yes	3.39		Yes	4		Yes	30.9		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	5.49		Yes	1.48	U	No	4.39		Yes	6.2		Yes	29.6		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	2.17		Yes	1.49	U	No	1.08	J	Yes	1.49	U	No	3.53		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	3.98		Yes	1.49	U	No	1.44	J	Yes	1.29	J	Yes	7.66		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	2.69		Yes	1.48	U	No	1.98		Yes	2.57		Yes	35.5		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	1.3	J	Yes	1.48	U	No	1.22	J	Yes	1.54		Yes	6.29		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.907	J	Yes	1.48	U	No	1.48	U	No	1.48	U	No	1.46	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	0.955	J	Yes	1.5	U	No	1.5	U	No	1.5	U	No	2.32	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					C2-Phenanthrene/anthracenes			C3-Benzanthracene/chrysenes			C3-Dibenzothiophenes			C3-Fluorenes			C3-Naphthalenes		
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	1.62		Yes	1.49	U	No	0.89	J	Yes	1.49	U	No	6.38		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	1.19	J	Yes	1.48	U	No	0.518	J	Yes	1.48	U	No	6.91		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	1.72		Yes	1.48	U	No	0.628	J	Yes	1.48	U	No	11.2		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	1.21	J	Yes	1.48	U	No	1.48	U	No	1.48	U	No	8.94		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	1.83		Yes	1.49	U	No	0.601	J	Yes	1.49	U	No	13.8		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	1.02	J	Yes	1.47	U	No	0.619	J	Yes	1.47	U	No	3.73		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.842	J	Yes	1.49	U	No	1.49	U	No	1.49	U	No	3.77		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.724	J	Yes	1.49	U	No	1.49	U	No	1.49	U	No	1.17	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.923	J	Yes	1.47	U	No	1.47	U	No	1.47	U	No	1.46	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	1.22	J	Yes	1.47	U	No	0.54	J	Yes	1.47	U	No	8.18		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.96	J	Yes	1.48	U	No	1.48	U	No	1.48	U	No	4.3		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	1.07	J	Yes	1.49	U	No	1.49	U	No	1.49	U	No	6.49		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	1.92		Yes	1.49	U	No	0.636	J	Yes	1.49	U	No	13.4		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	1.3	J	Yes	1.49	U	No	0.543	J	Yes	1.49	U	No	9.46		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	1.78		Yes	1.49	U	No	0.618	J	Yes	1.49	U	No	13.1		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.994	J	Yes	1.48	U	No	1.48	U	No	1.48	U	No	4.36		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	1.11	J	Yes	1.47	U	No	0.668	J	Yes	1.47	U	No	4.81		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.903	J	Yes	1.49	U	No	1.49	U	No	1.49	U	No	1.06	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.942	J	Yes	1.48	U	No	1.48	U	No	1.48	U	No	1.57	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	1.85		Yes	1.49	U	No	0.924	J	Yes	1.49	U	No	10.1		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	1.12	J	Yes	1.49	U	No	0.531	J	Yes	1.49	U	No	7.38		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	1.53		Yes	1.48	U	No	1.12	J	Yes	1.48	U	No	3.99		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.697	J	Yes	1.47	U	No	1.47	U	No	1.47	U	No	2.46	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	1.48	U	No	1.48	U	No	0.302	J	Yes	1.48	U	No	2.46	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.601	J	Yes	1.49	U	No	1.49	U	No	1.49	U	No	0.944	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	0.965	J	Yes	1.48	U	No	0.562	J	Yes	1.48	U	No	3.38		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	1.32	J	Yes	0.743	U	No	0.822	J	Yes	0.743	U	No	5.43		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	1.13	J	Yes	0.742	U	No	0.627	J	Yes	0.742	U	No	6.71		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	1.81		Yes	0.742	U	No	0.632	J	Yes	0.742	U	No	12.2		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	1.25	J	Yes	0.742	U	No	0.652	J	Yes	0.742	U	No	9.17		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	1.8		Yes	0.745	U	No	0.61	J	Yes	0.745	U	No	13.4		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	1.01	J	Yes	0.737	U	No	0.668	J	Yes	0.737	U	No	3.98		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.963	J	Yes	0.741	U	No	0.71	J	Yes	0.741	U	No	4.24		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.806	J	Yes	0.745	U	No	0.745	U	No	0.745	U	No	1.12	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.931	J	Yes	0.737	U	No	0.737	U	No	0.737	U	No	1.51	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	1.53	J	Yes	0.74	U	No	0.727	J	Yes	0.74	U	No	9.12		Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	2.75		Yes	2.21		Yes	1.16	J	Yes	2.32		Yes	3.69		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	2.95		Yes	1.48	U	No	1.28	J	Yes	2.56		Yes	18.5		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	2.43		Yes	1.47	U	No	0.914	J	Yes	1.8		Yes	22		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	1.76		Yes	1.48	U	No	0.793	J	Yes	1.48	U	No	9.96		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	1.38	J	Yes	1.49	U	No	0.922	J	Yes	1.49	U	No	11.6		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	1.48	U	No	1.48	U	No	1.48	U	No	1.48	U	No	1.39	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.752	J	Yes	1.5	U	No	0.714	J	Yes	1.5	U	No	2.92		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	3.87		Yes	1.48	U	No	1.62		Yes	1.48	U	No	10.2		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	88.3		Yes	18.6		Yes	21		Yes	20.5		Yes	72.2		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	5.93		Yes	1.49	U	No	2.52		Yes	4.56		Yes	35.1		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	9.23		Yes	8.15		Yes	4.08		Yes	7.29		Yes	28.4		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	2.1		Yes	1.48	U	No	1.73		Yes	1.48	U	No	5.06		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	2.75		Yes	1.48	U	No	1.48		Yes	3.4		Yes	6.84		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	16.3		Yes	1.5	U	No	6.72		Yes	11.6		Yes	167		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	4.58		Yes	1.48	U	No	2.77		Yes	5.28		Yes	25.2		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	9.31		Yes	1.48	U	No	6.48		Yes	7.33		Yes	57.9		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	5.12		Yes	1.48	U	No	3.94		Yes	1.48	U	No	25.6		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	8.67		Yes	7.16		Yes	4.4		Yes	6.75		Yes	21.7		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	3.35		Yes	1.5	U	No	1.5	U	No	4.13		Yes	23.8		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	6.48		Yes	1.5	U	No	3.56		Yes	6.28		Yes	83.2		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	9.08		Yes	1.48	U	No	4.55		Yes	7.49		Yes	112		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	1.8		Yes	1.5	U	No	1.5	U	No	1.5	U	No	9.65		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	2.11		Yes	1.5	U	No	1.5	U	No	1.5	U	No	11.8		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	1.98		Yes	1.49	U	No	1.49	U	No	1.49	U	No	11		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	4.78		Yes	1.47	U	No	4.41		Yes	5.3		Yes	40.6		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	2.35		Yes	1.49	U	No	1.49	U	No	1.49	U	No	9.7		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	2.7		Yes	1.48	U	No	1.48	U	No	1.48	U	No	11.6		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	3.32		Yes	1.48	U	No	3.01		Yes	4.49		Yes	10.1		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	8.07		Yes	1.47	U	No	5.75		Yes	7.24		Yes	71.8		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	2.87		Yes	1.5	U	No	1.5	U	No	1.5	U	No	12.3		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	6.69		Yes	1.48	U	No	4.21		Yes	1.48	U	No	36.4		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	5.62		Yes	1.48	U	No	3.77		Yes	6.01		Yes	55.8		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	7.83		Yes	1.49	U	No	4.7		Yes	6.63		Yes	42.7		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	12.9		Yes	0.75	U	No	5.61		Yes	9.74		Yes	138		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	3.72		Yes	0.743	U	No	2.14		Yes	3.87		Yes	20.4		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	7.89		Yes	0.738	U	No	5.83		Yes	6.69		Yes	52.5		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	4.26		Yes	0.742	U	No	2.95		Yes	0.742	U	No	20.7		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	6.73		Yes	5.07		Yes	3.21		Yes	4.8		Yes	18.4		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	5.32		Yes	1.48	U	No	2.38		Yes	4.42		Yes	38		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	2.1		Yes	1.49	U	No	1.49	U	No	1.49	U	No	2.98		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	3.35		Yes	1.49	U	No	1.49	U	No	1.49	U	No	4.21		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	3.5		Yes	1.48	U	No	3.02		Yes	3.87		Yes	17.6		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	1.25	J	Yes	1.48	U	No	0.692	J	Yes	1.48	U	No	8.3		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.967	J	Yes	1.48	U	No	1.48	U	No	1.48	U	No	1.19	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	1.01	J	Yes	1.5	U	No	1.5	U	No	1.5	U	No	1.25	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					C3-Phenanthrene/anthracenes			C4-Benzanthracene/chrysenes			C4-Dibenzothiophenes			C4-Naphthalenes			C4-Phenanthrene/anthracenes		
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	4.23		Yes	1.49	U	No	1.49	U	No	2.73		Yes	0.87	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	3.69		Yes	1.48	U	No	1.48	U	No	3		Yes	1.48	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	3.72		Yes	1.48	U	No	1.48	U	No	3.71		Yes	0.58	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	5.89		Yes	1.48	U	No	1.48	U	No	2.94		Yes	0.468	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	4.05		Yes	1.49	U	No	1.49	U	No	4.55		Yes	0.494	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	2.78		Yes	1.47	U	No	1.47	U	No	1.66	J	Yes	0.479	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	2.14		Yes	1.49	U	No	1.49	U	No	1.54	J	Yes	1.49	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	3.44		Yes	1.49	U	No	1.49	U	No	2.48	U	No	1.49	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	3.63		Yes	1.47	U	No	1.47	U	No	0.861	J	Yes	0.499	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	1.79		Yes	1.47	U	No	1.47	U	No	2.99		Yes	1.47	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	3.69		Yes	1.48	U	No	1.48	U	No	1.88	J	Yes	0.462	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	3.62		Yes	1.49	U	No	1.49	U	No	2.82		Yes	0.467	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	4.26		Yes	1.49	U	No	1.49	U	No	4.16		Yes	1.49	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	6.29		Yes	1.49	U	No	1.49	U	No	3.12		Yes	0.434	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	3.96		Yes	1.49	U	No	1.49	U	No	4.26		Yes	0.431	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	3.13		Yes	1.48	U	No	1.48	U	No	1.88	J	Yes	0.525	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	3.16		Yes	1.47	U	No	1.47	U	No	2	J	Yes	0.486	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	3.7		Yes	1.49	U	No	1.49	U	No	2.48	U	No	0.554	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	3.64		Yes	1.48	U	No	1.48	U	No	0.939	J	Yes	0.556	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	2.49		Yes	1.49	U	No	1.49	U	No	4.8		Yes	1.49	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	2.14		Yes	1.49	U	No	1.49	U	No	3.08		Yes	0.441	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	4.2		Yes	1.48	U	No	1.48	U	No	2.02	J	Yes	0.763	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	1.87		Yes	1.47	U	No	1.47	U	No	2.46	U	No	1.47	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.576	J	Yes	1.48	U	No	1.48	U	No	2.46	U	No	1.48	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	2.03		Yes	1.49	U	No	1.49	U	No	2.49	U	No	1.49	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	3.74		Yes	1.48	U	No	1.48	U	No	1.78	J	Yes	0.434	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	3.98		Yes	0.743	U	No	0.743	U	No	2.34	J	Yes	0.684	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	3.66		Yes	0.742	U	No	0.742	U	No	2.91		Yes	0.609	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	3.98		Yes	0.742	U	No	0.742	U	No	3.92		Yes	0.658	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	6.07		Yes	0.742	U	No	0.742	U	No	3.02		Yes	0.453	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	4		Yes	0.745	U	No	0.745	U	No	4.4		Yes	0.462	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	2.92		Yes	0.737	U	No	0.737	U	No	1.75	J	Yes	0.497	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	2.6		Yes	0.741	U	No	0.741	U	No	1.75	J	Yes	0.628	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	3.56		Yes	0.745	U	No	0.745	U	No	1.24	U	No	0.657	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	3.63		Yes	0.737	U	No	0.737	U	No	0.893	J	Yes	0.523	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	2.13		Yes	0.74	U	No	0.74	U	No	3.87		Yes	0.74	U	No
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	2.26		Yes	1.48	U	No	1.48	U	No	2.56		Yes	0.642	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	1.63		Yes	1.48	U	No	1.48	U	No	8.68		Yes	0.792	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.995	J	Yes	1.47	U	No	1.47	U	No	6.28		Yes	1.47	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	1.09	J	Yes	1.48	U	No	1.48	U	No	4.64		Yes	1.48	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	1.08	J	Yes	1.49	U	No	1.49	U	No	5.61		Yes	1.49	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.723	J	Yes	1.48	U	No	1.48	U	No	1.11	J	Yes	1.48	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.692	J	Yes	1.5	U	No	1.5	U	No	1.96	J	Yes	1.5	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	3.33		Yes	1.48	U	No	1.48	U	No	6.29		Yes	1.48	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	33.1		Yes	9.39		Yes	8.98		Yes	32.1		Yes	11.5		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	4.42		Yes	1.49	U	No	1.49	U	No	15.9		Yes	1.49	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	5.58		Yes	1.48	U	No	1.48	U	No	17.1		Yes	2.44		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	3.21		Yes	1.48	U	No	1.48	U	No	3.71		Yes	1.48	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	2.26		Yes	1.48	U	No	1.48	U	No	4.63		Yes	1.02	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	13.5		Yes	1.5	U	No	1.5	U	No	50.8		Yes	2.69		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	6.44		Yes	1.48	U	No	1.48	U	No	11.8		Yes	1.48	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	11.1		Yes	1.48	U	No	1.48	U	No	24.2		Yes	1.48	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	11		Yes	1.48	U	No	1.48	U	No	12.7		Yes	1.48	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	11.9		Yes	1.48	U	No	1.48	U	No	10.8		Yes	2.26		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	4.2		Yes	1.5	U	No	1.5	U	No	12		Yes	1.5	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	6.21		Yes	1.5	U	No	1.5	U	No	26.2		Yes	1.5	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	8.64		Yes	1.48	U	No	1.48	U	No	33.7		Yes	1.48	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	2.95		Yes	1.5	U	No	1.5	U	No	5.3		Yes	1.5	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	3.02		Yes	1.5	U	No	1.5	U	No	5.46		Yes	1.5	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	3.35		Yes	1.49	U	No	1.49	U	No	4.82		Yes	1.49	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	7.29		Yes	1.47	U	No	1.47	U	No	17.6		Yes	1.47	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	4.6		Yes	1.49	U	No	1.49	U	No	5.44		Yes	1.49	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	6.04		Yes	1.48	U	No	1.48	U	No	6.06		Yes	1.48	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	7.76		Yes	1.48	U	No	1.48	U	No	6.19		Yes	1.48	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	11.5		Yes	1.47	U	No	1.47	U	No	27.4		Yes	1.47	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	4.11		Yes	1.5	U	No	1.5	U	No	6.37		Yes	1.5	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	10.2		Yes	1.48	U	No	1.48	U	No	16.1		Yes	1.48	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	5.04		Yes	1.48	U	No	1.48	U	No	24.2		Yes	1.48	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	11.3		Yes	1.49	U	No	1.49	U	No	18.4		Yes	1.49	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	10.9		Yes	0.75	U	No	0.75	U	No	42.2		Yes	2.01		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	5.35		Yes	0.743	U	No	0.743	U	No	9.78		Yes	0.743	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	9.9		Yes	0.738	U	No	0.738	U	No	22.1		Yes	0.738	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	9.02		Yes	0.742	U	No	0.742	U	No	10.4		Yes	0.742	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	10		Yes	0.74	U	No	0.74	U	No	9.26		Yes	1.77		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	8.39		Yes	1.48	U	No	1.48	U	No	17		Yes	1.48	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	9.16		Yes	1.49	U	No	1.49	U	No	2.22	J	Yes	1.49	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	13.1		Yes	1.49	U	No	1.49	U	No	3.05		Yes	1.49	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	6.71		Yes	1.48	U	No	1.48	U	No	8.04		Yes	1.48	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	1.78		Yes	1.48	U	No	1.48	U	No	3.94		Yes	1.48	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	4.26		Yes	1.48	U	No	1.48	U	No	2.47	U	No	0.651	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	3.55		Yes	1.5	U	No	1.5	U	No	2.5	U	No	1.5	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

					C1-Benzanthracene/chrysenes			C1-Dibenzothiophenes			C1-Fluorenes			C1-Phenanthrene/anthracenes		
					µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	1.48	U	No	1.41	J	Yes	2.22		Yes	2.87		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	0.519	J	Yes	6.06		Yes	11.4		Yes	14.4		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	0.552	J	Yes	0.69	J	Yes	0.648	J	Yes	1.17	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	1.12	J	Yes	1.1	J	Yes	0.886	J	Yes	1.83	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	0.455	J	Yes	2.25	J	Yes	3.4		Yes	4.87		Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	1.7		Yes	2.89		Yes	11.7		Yes	6.31		Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	1.49	U	No	0.405	J	Yes	1.27	J	Yes	0.782	J	Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	1.25		Yes	1.73	J	Yes	6.84	J	Yes	3.73	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	2.65		Yes	0.546	J	Yes	1.01	J	Yes	2.64		Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	0.614	J	Yes	1.18	J	Yes	2.05		Yes	2.94		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	1.48	U	No	1.22	J	Yes	2.42		Yes	2.13		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	0.326	J	Yes	1.7		Yes	4.03		Yes	4.2		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	1.48	U	No	2.15		Yes	5.35		Yes	5.44		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	1.48	U	No	1.48	U	No	0.582	J	Yes	1.48	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	1.47	U	No	0.29	J	Yes	0.616	J	Yes	0.8	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	1.47	U	No	0.368	J	Yes	0.845	J	Yes	1	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	0.74	U	No	1.03	J	Yes	1.71	J	Yes	1.59		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	0.494	J	Yes	1.12	J	Yes	2.63	J	Yes	2.8	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	0.738	U	No	1.4	J	Yes	3.45	J	Yes	3.57	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	29.5		Yes	4		Yes	7.39		Yes	25.7		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	4.77		Yes	3.66		Yes	10.9		Yes	14		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	9.76		Yes	3.01		Yes	7.54		Yes	14.5		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	4.52		Yes	1.92		Yes	4.41		Yes	7.5		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	9.7		Yes	3.1		Yes	9.01		Yes	14.1		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	1.94		Yes	2.57		Yes	7.55		Yes	8.38		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	5.84		Yes	3.45		Yes	9		Yes	13		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	7.79		Yes	1.77		Yes	3.26		Yes	8.26		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	1.5	U	No	0.387	J	Yes	0.822	J	Yes	0.991	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	1.49	U	No	0.6	J	Yes	1.6		Yes	1.8		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	1.49	U	No	0.584	J	Yes	1.39	J	Yes	2.07		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	1.5	U	No	0.512	J	Yes	1.22	J	Yes	1.71		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	1.48	U	No	0.706	J	Yes	1.8		Yes	2.21		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	1.49	U	No	0.639	J	Yes	1.86		Yes	1.83		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	1.49	U	No	0.897	J	Yes	2.05		Yes	2.64		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	1.48	U	No	0.41	J	Yes	0.639	J	Yes	0.779	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	18.7		Yes	2.65	J	Yes	4.93	J	Yes	16.4	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	3.19		Yes	2.46	J	Yes	7.25		Yes	9.22		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	6.28		Yes	2.07	J	Yes	5.17	J	Yes	9.7		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	2.98		Yes	1.34	J	Yes	3.11	J	Yes	5.13		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	6.15		Yes	2.15	J	Yes	6.15		Yes	9.39		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	1.46		Yes	1.79	J	Yes	5.26		Yes	5.75		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	3.7		Yes	2.38	J	Yes	6.08		Yes	8.65		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	4.85		Yes	1.2	J	Yes	2.17	J	Yes	5.14	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	16.7		Yes	4.44		Yes	6.86		Yes	21.2		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	9.2		Yes	2.56		Yes	5.36		Yes	10.4		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	8.17		Yes	1.68		Yes	2.95		Yes	8.84		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	1.08	J	Yes	1.47	J	Yes	2.25		Yes	2.47		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	0.855	J	Yes	0.706	J	Yes	0.596	J	Yes	1.21	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.343	J	Yes	0.579	J	Yes	1.07	J	Yes	1.55		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	1.47	U	No	0.663	J	Yes	1.42	J	Yes	1.87		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	1.49	U	No	0.388	J	Yes	0.736	J	Yes	1.15	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	1.47	U	No	0.455	J	Yes	0.739	J	Yes	0.747	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	1.49	U	No	0.252	J	Yes	1.49	U	No	1.49	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	9.4	J	Yes	2.72	J	Yes	4.28	J	Yes	12.4		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	6.16		Yes	1.88	J	Yes	3.95	J	Yes	7.34		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	4.95		Yes	1.12	J	Yes	1.99	J	Yes	5.51	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	0.969	J	Yes	1.14	J	Yes	1.76	J	Yes	1.91	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.809	J	Yes	0.518	J	Yes	0.658	J	Yes	1.02	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	C1-Pyrene/fluoranthenes µg/kg			C2-Benzanthracene/chrysenes µg/kg			C2-Dibenzothiophenes µg/kg			C2-Fluorenes µg/kg			C2-Naphthalenes µg/kg		
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	1.4	J	Yes	1.48	U	No	1.06	J	Yes	1.5		Yes	18.2		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	4.58	J	Yes	0.74	U	No	3.7	J	Yes	5.18		Yes	24.5		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	1.79	J	Yes	0.744	U	No	0.979	J	Yes	0.744	U	No	2.91	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	3.13	J	Yes	0.746	U	No	1.25	J	Yes	1.14	J	Yes	6.15	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	2.33	J	Yes	0.74	U	No	1.72	J	Yes	2.27		Yes	30.7		Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	5.34		Yes	1.48	J	Yes	3.09		Yes	6.38		Yes	51.7		Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.644	J	Yes	1.49	U	No	0.542	J	Yes	1.08	J	Yes	6.06		Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	3.15	J	Yes	1.14	J	Yes	1.9	J	Yes	3.91	J	Yes	30.4		Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	5.33		Yes	1.45	J	Yes	0.847	J	Yes	0.925	J	Yes	2.7		Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	2.31		Yes	1.48	U	No	1.3	J	Yes	1.72		Yes	12.6		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	1.44	J	Yes	1.48	U	No	0.862	J	Yes	1.84		Yes	18.9		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	2.03		Yes	1.48	U	No	1.04	J	Yes	2.45		Yes	28.9		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	2.14		Yes	1.48	U	No	1.26	J	Yes	2.81		Yes	38.7		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	1.48	U	No	1.48	U	No	0.279	J	Yes	0.401	J	Yes	2.38	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	1.47	U	No	1.47	U	No	0.292	J	Yes	0.563	J	Yes	4.03		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	1.47	U	No	1.47	U	No	0.31	J	Yes	0.627	J	Yes	4.61		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	1.17	J	Yes	0.74	U	No	0.637	J	Yes	1.28	J	Yes	12.5	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	1.5		Yes	0.738	U	No	0.733	J	Yes	1.67	J	Yes	18.7		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	1.55		Yes	0.738	U	No	0.859	J	Yes	1.89	J	Yes	24.3		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	44		Yes	18.1		Yes	8.89		Yes	8.6		Yes	26.1		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	9.41		Yes	3		Yes	3.94		Yes	6.17		Yes	58.2		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	15.4		Yes	5.48		Yes	4.06		Yes	5.41		Yes	26.8		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	7.93		Yes	2.67		Yes	2.69		Yes	3.36		Yes	17.9		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	14.3		Yes	6.02		Yes	4.31		Yes	5.77		Yes	39.8		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	5		Yes	1.41	J	Yes	2.52		Yes	3.74		Yes	35.8		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	10.7		Yes	3.84		Yes	3.54		Yes	5.87		Yes	35		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	12.8		Yes	4.5		Yes	3.59		Yes	3.5		Yes	9.11		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.689	J	Yes	1.5	U	No	0.543	J	Yes	0.721	J	Yes	3.69		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.682	J	Yes	1.49	U	No	0.578	J	Yes	0.953	J	Yes	7.35		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.876	J	Yes	1.49	U	No	0.671	J	Yes	1.06	J	Yes	4.33		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.764	J	Yes	1.5	U	No	0.744	J	Yes	0.985	J	Yes	3.78		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.921	J	Yes	1.48	U	No	0.665	J	Yes	1.14	J	Yes	7.1		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.714	J	Yes	1.49	U	No	0.712	J	Yes	1.06	J	Yes	7.51		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	1.25	J	Yes	1.49	U	No	0.887	J	Yes	1.53		Yes	5.74		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.564	J	Yes	1.48	U	No	0.582	J	Yes	1.48	U	No	2.09	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	27.8	J	Yes	11.6		Yes	5.76	J	Yes	5.65	J	Yes	17.7		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	5.99	J	Yes	2.12		Yes	2.62	J	Yes	4.12	J	Yes	38.3		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	9.79	J	Yes	3.65		Yes	2.75	J	Yes	3.73	J	Yes	18.1		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	5	J	Yes	1.88		Yes	1.89	J	Yes	2.39	J	Yes	12.1		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	9	J	Yes	3.93		Yes	2.87	J	Yes	3.94	J	Yes	26.9		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	3.28	J	Yes	1.14	J	Yes	1.79	J	Yes	2.66	J	Yes	24.4		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	6.73	J	Yes	2.54		Yes	2.43	J	Yes	4.05		Yes	22.7		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	7.7	J	Yes	2.93		Yes	2.34	J	Yes	2.35		Yes	6.18	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	27.9		Yes	8.85		Yes	5.19		Yes	5.5		Yes	38.9		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	12.2		Yes	6.63		Yes	2.9		Yes	3.57		Yes	38.2		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	11.7		Yes	4.66		Yes	2.53		Yes	2.56		Yes	12.7		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	2.4		Yes	1.03	J	Yes	1.78		Yes	1.68		Yes	17.1		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	1.59		Yes	0.934	J	Yes	0.771	J	Yes	0.845	J	Yes	4.72		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.842	J	Yes	1.5	U	No	0.669	J	Yes	1.03	J	Yes	7.33		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.806	J	Yes	1.47	U	No	0.669	J	Yes	0.937	J	Yes	8.82		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.525	J	Yes	1.49	U	No	0.411	J	Yes	0.596	J	Yes	3.36		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.622	J	Yes	1.47	U	No	0.529	J	Yes	0.708	J	Yes	3.93		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	1.49	U	No	1.49	U	No	0.38	J	Yes	1.49	U	No	1.2	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	15.8	J	Yes	5.24		Yes	3.17	J	Yes	3.51	J	Yes	24.8		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	8.11	J	Yes	4.51		Yes	2.1	J	Yes	2.62	J	Yes	27.7		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	6.86	J	Yes	2.96		Yes	1.61	J	Yes	1.71	J	Yes	8.66		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	1.83	J	Yes	0.935	J	Yes	1.38	J	Yes	1.37	J	Yes	12.8		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	1.24		Yes	0.856	J	Yes	0.609	J	Yes	0.804	J	Yes	3.26	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	C2-Phenanthrene/anthracenes µg/kg			C3-Benzanthracene/chrysenes µg/kg			C3-Dibenzothiophenes µg/kg			C3-Fluorenes µg/kg			C3-Naphthalenes µg/kg		
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	1.92		Yes	1.48	U	No	1.73		Yes	2.25		Yes	9.14		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	4.43	J	Yes	0.74	U	No	2.01	J	Yes	3.62		Yes	31.5		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	1.76	J	Yes	0.744	U	No	0.744	U	No	0.744	U	No	2.45	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	2.69	J	Yes	0.746	U	No	0.746	U	No	0.746	U	No	3.38	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	3.06		Yes	0.74	U	No	2.66		Yes	3.42		Yes	15.2		Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	5.42		Yes	1.49	U	No	4.13		Yes	6.76		Yes	44.2		Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.898	J	Yes	1.49	U	No	0.729	J	Yes	1.49	U	No	5.4		Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	3.31	J	Yes	0.745	U	No	2.55	J	Yes	3.96		Yes	26.1		Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	1.87		Yes	2.9		Yes	0.838	J	Yes	1.47	U	No	2.82		Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	2.45		Yes	1.48	U	No	1.44	J	Yes	1.48	U	No	8.96		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	1.41	J	Yes	1.48	U	No	1.11	J	Yes	3.03		Yes	15.9		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	1.81		Yes	1.48	U	No	1.05	J	Yes	2.56		Yes	19.7		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	2.09		Yes	1.48	U	No	1.3	J	Yes	3.15		Yes	25.6		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	1.48	U	No	1.48	U	No	0.329	J	Yes	1.48	U	No	1.97	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	1.47	U	No	1.47	U	No	1.47	U	No	1.47	U	No	2.62		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.465	J	Yes	1.47	U	No	1.47	U	No	1.47	U	No	3.12		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	1.15	J	Yes	0.74	U	No	0.809	J	Yes	2.15		Yes	10.5	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	1.37		Yes	0.738	U	No	0.921	J	Yes	1.81		Yes	12.7		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	1.4	J	Yes	0.738	U	No	1.06	J	Yes	2.13		Yes	16.1		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	24.3		Yes	10.5		Yes	7.7		Yes	8.78		Yes	19.8		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	6.64		Yes	2.56		Yes	3.45		Yes	5.16		Yes	36.1		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	9.52		Yes	4.3		Yes	3.94		Yes	5.25		Yes	22.4		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	4.28		Yes	3.68		Yes	2.67		Yes	3.6		Yes	13.9		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	9.16		Yes	4.68		Yes	3.86		Yes	5.34		Yes	28.4		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	3.97		Yes	1.49	U	No	3.11		Yes	4.37		Yes	28.7		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	7.74		Yes	3.5		Yes	3.46		Yes	5.78		Yes	26.6		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	7.78		Yes	3.79		Yes	3.54		Yes	5.24		Yes	10.3		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.637	J	Yes	1.5	U	No	0.606	J	Yes	1.5	U	No	2.66		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.796	J	Yes	1.49	U	No	0.522	J	Yes	1.33	J	Yes	5.15		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	1.02	J	Yes	1.49	U	No	0.612	J	Yes	1.49	U	No	4.1		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.831	J	Yes	1.5	U	No	0.611	J	Yes	1.5	U	No	3.18		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.959	J	Yes	1.48	U	No	0.643	J	Yes	1.45	J	Yes	5.45		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.884	J	Yes	1.49	U	No	0.634	J	Yes	1.42	J	Yes	6.28		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	1.3	J	Yes	1.49	U	No	0.642	J	Yes	2.09		Yes	5.03		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.606	J	Yes	1.48	U	No	0.533	J	Yes	1.48	U	No	2.13	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	15.4	J	Yes	6.84		Yes	5.04	J	Yes	5.77		Yes	13.4		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	4.35	J	Yes	1.85		Yes	2.3	J	Yes	3.66	J	Yes	24		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	6.24	J	Yes	2.93		Yes	2.66	J	Yes	3.51		Yes	15.3		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	2.87	J	Yes	2.48		Yes	1.83	J	Yes	2.43		Yes	9.52		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	5.91	J	Yes	3.12		Yes	2.59	J	Yes	3.8	J	Yes	19.3		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	2.73	J	Yes	0.745	U	No	2.11	J	Yes	3.18	J	Yes	19.7		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	5.04	J	Yes	2.34		Yes	2.28	J	Yes	4.23		Yes	17.5		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	4.79	J	Yes	2.52		Yes	2.29	J	Yes	3.36		Yes	6.89	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	13.6		Yes	6.64		Yes	4.04		Yes	6.56		Yes	22.6		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	7.88		Yes	5.64		Yes	2.32		Yes	4.14		Yes	17.2		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	6.51		Yes	4.75		Yes	1.95		Yes	3.26		Yes	7.7		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	2.6		Yes	1.48	U	No	2.07		Yes	4.51		Yes	9.48		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	1.74		Yes	1.48	U	No	1.26	J	Yes	1.48	U	No	2.9		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	1.01	J	Yes	1.5	U	No	0.595	J	Yes	1.5	U	No	4.32		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.999	J	Yes	1.47	U	No	0.556	J	Yes	1.47	U	No	4.33		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.631	J	Yes	1.49	U	No	1.49	U	No	1.49	U	No	2.03	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.868	J	Yes	1.47	U	No	0.745	J	Yes	1.47	U	No	2.41	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.524	J	Yes	1.49	U	No	0.502	J	Yes	1.49	U	No	0.92	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	7.98	J	Yes	4.01		Yes	2.5	J	Yes	3.97		Yes	14.4		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	5.41	J	Yes	3.88		Yes	1.69	J	Yes	2.92		Yes	12.6		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	3.96	J	Yes	3.02		Yes	1.43		Yes	2.17		Yes	5.24	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	2.04	J	Yes	0.738	U	No	1.64	J	Yes	3.29		Yes	7.2	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	1.24	J	Yes	0.742	U	No	0.946	J	Yes	0.742	U	No	2.08	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	C3-Phenanthrene/anthracenes µg/kg			C4-Benzanthracene/chrysenes µg/kg			C4-Dibenzothiophenes µg/kg			C4-Naphthalenes µg/kg			C4-Phenanthrene/anthracenes µg/kg		
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	3.5		Yes	1.48	U	No	1.48	U	No	4.51		Yes	1.48	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	6.95		Yes	0.74	U	No	0.74	U	No	14.2		Yes	0.74	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	7.7		Yes	0.744	U	No	0.744	U	No	1.93	J	Yes	0.717	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	10.4		Yes	0.746	U	No	0.746	U	No	2.54		Yes	0.746	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	5.81		Yes	0.74	U	No	0.74	U	No	7.05		Yes	0.74	U	No
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	11.8		Yes	1.49	U	No	1.49	U	No	28.9		Yes	1.45	J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	1.8		Yes	1.49	U	No	1.49	U	No	3.79		Yes	1.49	U	No
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	7.14		Yes	0.745	U	No	0.745	U	No	17.2		Yes	1.12	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	1.42	J	Yes	1.47	U	No	1.47	U	No	2.12	J	Yes	0.617	J	Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	3.47		Yes	1.48	U	No	1.48	U	No	6.98		Yes	0.798	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	7.64		Yes	1.48	U	No	1.48	U	No	9.43		Yes	0.528	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	7.04		Yes	1.48	U	No	1.48	U	No	10.3		Yes	0.524	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	6.63		Yes	1.48	U	No	1.48	U	No	12.7		Yes	0.56	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.858	J	Yes	1.48	U	No	1.48	U	No	1.31	J	Yes	1.48	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.752	J	Yes	1.47	U	No	1.47	U	No	1.36	J	Yes	1.47	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.683	J	Yes	1.47	U	No	1.47	U	No	1.65	J	Yes	1.47	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	5.02	J	Yes	0.74	U	No	0.74	U	No	6.3	J	Yes	0.61	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	4.46	J	Yes	0.738	U	No	0.738	U	No	6.63	J	Yes	0.611	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	4.12	J	Yes	0.738	U	No	0.738	U	No	8.04	J	Yes	0.634	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	16.7		Yes	1.48	U	No	7.78		Yes	17.4		Yes	5.76		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	7.74		Yes	1.5	U	No	1.5	U	No	20.8		Yes	1.48	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	9.49		Yes	1.48	U	No	1.48	U	No	15.2		Yes	1.94		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	5.11		Yes	1.48	U	No	1.48	U	No	10.8		Yes	1.44	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	8.86		Yes	1.48	U	No	6.43		Yes	18.2		Yes	2.14		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	5.97		Yes	1.49	U	No	1.49	U	No	17.7		Yes	1.25	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	6.88		Yes	1.47	U	No	1.47	U	No	16.8		Yes	1.67		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	6.72		Yes	1.47	U	No	1.47	U	No	10.5		Yes	1.63		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	1.07	J	Yes	1.5	U	No	1.5	U	No	2.66		Yes	1.5	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	1.11	J	Yes	1.49	U	No	1.49	U	No	3.58		Yes	1.49	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	1.43	J	Yes	1.49	U	No	1.49	U	No	2.93		Yes	0.434	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	1.05	J	Yes	1.5	U	No	1.5	U	No	2.54		Yes	0.481	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	1.24	J	Yes	1.48	U	No	1.48	U	No	3.56		Yes	0.49	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	1.27	J	Yes	1.49	U	No	1.49	U	No	4.03		Yes	0.427	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	1.16	J	Yes	1.49	U	No	1.49	U	No	3.43		Yes	0.436	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.952	J	Yes	1.48	U	No	1.48	U	No	2.07	J	Yes	0.487	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	10.8	J	Yes	0.744	U	No	5.14		Yes	11.9		Yes	3.88		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	5.14	J	Yes	0.748	U	No	0.748	U	No	14		Yes	1.19	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	6.38	J	Yes	0.742	U	No	0.742	U	No	10.5		Yes	1.36	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	3.45	J	Yes	0.744	U	No	0.744	U	No	7.42		Yes	1.05	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	5.84	J	Yes	0.74	U	No	4.18		Yes	12.4		Yes	1.49	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	4.08	J	Yes	0.745	U	No	0.745	U	No	12.2		Yes	0.919	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	4.48	J	Yes	0.739	U	No	0.739	U	No	11.2		Yes	1.15	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	4.31	J	Yes	0.737	U	No	0.737	U	No	6.98	J	Yes	1.15	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	9.57		Yes	1.47	U	No	4.62		Yes	13		Yes	2.56		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	6.16		Yes	1.48	U	No	3.78		Yes	9.48		Yes	1.68		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	4.98		Yes	1.49	U	No	2.01		Yes	5.21		Yes	1.84		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	5.7		Yes	1.48	U	No	1.48	U	No	5.61		Yes	1.11	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	2.83		Yes	1.48	U	No	1.48	U	No	2.79		Yes	0.814	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	1.18	J	Yes	1.5	U	No	1.5	U	No	2.59		Yes	0.538	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	1.3	J	Yes	1.47	U	No	1.47	U	No	2.75		Yes	0.483	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.782	J	Yes	1.49	U	No	1.49	U	No	1.43	J	Yes	0.43	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	1.47		Yes	1.47	U	No	1.47	U	No	1.58	J	Yes	0.571	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.834	J	Yes	1.49	U	No	1.49	U	No	2.48	U	No	0.425	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	5.83	J	Yes	0.742	U	No	2.89		Yes	8.36		Yes	1.66	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	4.42	J	Yes	0.738	U	No	2.69		Yes	7.06		Yes	1.25	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	3.16	J	Yes	0.745	U	No	1.46		Yes	3.57	J	Yes	1.23	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	4.33		Yes	0.738	U	No	0.738	U	No	4.31	J	Yes	0.936	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	2	J	Yes	0.742	U	No	0.742	U	No	2.15		Yes	0.653	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					Monobutyltin			Dibutyltin			Tributyltin			Tetrabutyltin		
					µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	3.6	J	Yes	9.8	UJ	No	9.8	UJ	No	9.8	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	3.5	J	Yes	10	UJ	No	10	UJ	No	10	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	2.1	J	Yes	10	UJ	No	10	UJ	No	10	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	2.4	J	Yes	9.5	UJ	No	9.5	UJ	No	9.5	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	9.8	UJ	No	9.8	UJ	No	9.8	UJ	No	9.8	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	1.9	J	Yes	10	UJ	No	10	UJ	No	10	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	9.6	UJ	No	9.6	UJ	No	9.6	UJ	No	9.6	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	3.8	J	Yes	9.8	UJ	No	9.8	UJ	No	9.8	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	9.9	UJ	No	9.9	UJ	No	9.9	UJ	No	9.9	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	50	UJ	No	50	UJ	No	50	UJ	No	50	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	10	UJ	No	10	UJ	No	10	UJ	No	10	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	9.9	UJ	No	9.9	UJ	No	9.9	UJ	No	9.9	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	10	UJ	No	10	UJ	No	10	UJ	No	10	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	9.8	UJ	No	9.8	UJ	No	9.8	UJ	No	9.8	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	9.6	UJ	No	9.6	UJ	No	9.6	UJ	No	9.6	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	9.6	UJ	No	9.6	UJ	No	9.6	UJ	No	9.6	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	9.9	UJ	No	9.9	UJ	No	9.9	UJ	No	9.9	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	9.7	UJ	No	9.7	UJ	No	9.7	UJ	No	9.7	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	9.8	UJ	No	9.8	UJ	No	9.8	UJ	No	9.8	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	9.6	UJ	No	9.6	UJ	No	9.6	UJ	No	9.6	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	1.8	J	Yes	10	UJ	No	10	UJ	No	10	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	4.3	J	Yes	20	UJ	No	20	UJ	No	20	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	2.8	J	Yes	9.8	UJ	No	9.8	UJ	No	9.8	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	10	U	No	10	UJ	No	3	J	Yes	10	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	2	J	Yes	9.9	UJ	No	9.9	UJ	No	9.9	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	9.9	U	No	9.9	UJ	No	9.9	UJ	No	9.9	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	4.2	J	Yes	4.9	UJ	No	4.9	UJ	No	4.9	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	4.2	J	Yes	5	UJ	No	5	UJ	No	5	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	3.5	J	Yes	5	UJ	No	5	UJ	No	5	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	3.5	J	Yes	4.8	UJ	No	4.8	UJ	No	4.8	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	4.8	UJ	No	4.8	UJ	No	4.8	UJ	No	4.8	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	3.1	J	Yes	4.9	UJ	No	4.9	UJ	No	4.9	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	4.9	UJ	No	4.9	UJ	No	4.9	UJ	No	4.9	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	4.3	J	Yes	4.9	UJ	No	4.9	UJ	No	4.9	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	4.9	UJ	No	4.9	UJ	No	4.9	UJ	No	4.9	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	15	UJ	No	15	UJ	No	15	UJ	No	15	U	No
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	1.4	J	Yes	5	UJ	No	5	UJ	No	5	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	1.9	J	Yes	4.9	U	No	0.97	J	Yes	4.9	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	2.3	J	Yes	5	U	No	2.3	J	Yes	5	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	7.1	U	No	7.1	U	No	7.1	UJ	No	7.1	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	1.4	J	Yes	4.8	U	No	1.2	J	Yes	4.8	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	1.8	J	Yes	4.8	U	No	4.8	UJ	No	4.8	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	2.8	J	Yes	6	U	No	6	UJ	No	6	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	1.4	J	Yes	5.9	U	No	0.66	J	Yes	5.9	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	2.9	J	Yes	7.4	U	No	1.4	J	Yes	7.4	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	3.1	J	Yes	7.9	U	No	1.9	J	Yes	7.9	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	2.5	J	Yes	6.7	U	No	6.7	UJ	No	6.7	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	1.4	J	Yes	5.6	U	No	5.6	UJ	No	5.6	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	1.8	J	Yes	5	U	No	5	UJ	No	5	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	4.8	U	No	4.8	UJ	No	4.8	UJ	No	4.8	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	5	U	No	5	UJ	No	0.77	J	Yes	5	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	4.8	U	No	4.8	UJ	No	1.3	J	Yes	4.8	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	5	U	No	5	UJ	No	0.57	J	Yes	5	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	4.9	U	No	4.9	UJ	No	0.61	J	Yes	4.9	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	5	U	No	5	UJ	No	1.2	J	Yes	5	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	4.9	U	No	4.9	UJ	No	1.4	J	Yes	4.9	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	4.8	U	No	4.8	UJ	No	0.96	J	Yes	4.8	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	4.7	U	No	4.7	UJ	No	0.76	J	Yes	4.7	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	4.8	U	No	4.8	UJ	No	2.7	J	Yes	4.8	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	4.9	U	No	4.9	UJ	No	1.6	J	Yes	4.9	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	4.9	U	No	4.9	UJ	No	1.5	J	Yes	4.9	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	5	U	No	5	UJ	No	0.77	J	Yes	5	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	5	U	No	5	UJ	No	0.64	J	Yes	5	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	5	U	No	5	UJ	No	0.8	J	Yes	5	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	4.8	U	No	4.8	UJ	No	1.6	J	Yes	4.8	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	4.7	U	No	4.7	UJ	No	1.8	J	Yes	4.7	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	5	U	No	5	UJ	No	0.87	J	Yes	5	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	4.8	U	No	4.8	UJ	No	0.75	J	Yes	4.8	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	0.91	J	Yes	4.8	UJ	No	1.7	J	Yes	4.8	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	2.4	U	No	2.4	UJ	No	2.1	J	Yes	2.4	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	2.5	U	No	2.5	UJ	No	0.77	J	Yes	2.5	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	2.4	U	No	2.4	UJ	No	1.4	J	Yes	2.4	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	2.5	U	No	2.5	UJ	No	0.63	J	Yes	2.5	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	2.5	U	No	2.5	UJ	No	0.62	J	Yes	2.5	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	5	U	No	5	U	No	0.58	J	Yes	5	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	4.9	U	No	4.9	U	No	4.9	UJ	No	4.9	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	4.7	U	No	4.7	U	No	4.7	UJ	No	4.7	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	4.8	U	No	4.8	U	No	4.8	UJ	No	4.8	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	1.8	J	Yes	5	U	No	5	UJ	No	5	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	4.8	U	No	4.8	U	No	4.8	UJ	No	4.8	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	4.7	U	No	4.7	U	No	0.58	J	Yes	4.7	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	Monobutyltin µg/kg			Dibutyltin µg/kg			Tributyltin µg/kg			Tetrabutyltin µg/kg		
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	4.8	U	No	4.8	U	No	4.8	UJ	No	4.8	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	2.3	J	Yes	2.5	U	No	1	J	Yes	2.5	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	2.4	U	No	2.4	U	No	2.4	UJ	No	2.4	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	2.4	U	No	2.4	U	No	1.9	J	Yes	2.4	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	2.4	U	No	2.4	U	No	2.4	UJ	No	2.4	U	No
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	4.9	U	No	4.9	UJ	No	4.9	UJ	No	4.9	U	No
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	4.9	U	No	4.9	UJ	No	4.9	UJ	No	4.9	U	No
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	2.5	U	No	2.5	UJ	No	2.5	UJ	No	2.5	U	No
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	3.2	J	Yes	6.4	UJ	No	6.4	UJ	No	6.4	U	No
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	6.3		Yes	6.3	UJ	No	1.1	J	Yes	6.3	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	9.9	U	No	9.9	UJ	No	9.9	UJ	No	9.9	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	2.8	J	Yes	9.9	UJ	No	9.9	UJ	No	9.9	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	1.9	J	Yes	10	UJ	No	10	UJ	No	10	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	1.8	J	Yes	9.9	UJ	No	9.9	UJ	No	9.9	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	10	U	No	10	UJ	No	10	UJ	No	10	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	9.9	U	No	9.9	UJ	No	9.9	UJ	No	9.9	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	3.7	J	Yes	5	UJ	No	5	UJ	No	5	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	3.7	J	Yes	5	UJ	No	5	UJ	No	5	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	3.2	J	Yes	5	UJ	No	5	UJ	No	5	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	2.2	J	Yes	5	UJ	No	2.6	J	Yes	3	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	1.6	J	Yes	4.9	UJ	No	3.8	J	Yes	4.9	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	1.3	J	Yes	5	UJ	No	2.3	J	Yes	0.78	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	1.4	J	Yes	5	UJ	No	3	J	Yes	2.2	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	2	J	Yes	5	UJ	No	4.3	J	Yes	5	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	2.5	J	Yes	5	UJ	No	2.2	J	Yes	5	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	2.4	J	Yes	5	UJ	No	2.3	J	Yes	5	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	2.8	J	Yes	5.3	UJ	No	2.3	J	Yes	5.3	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	1.2	J	Yes	5.3	UJ	No	5.3	UJ	No	5.3	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	4.9	U	No	4.9	UJ	No	4.9	UJ	No	4.9	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	5	U	No	5	UJ	No	5	UJ	No	5	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	4.8	U	No	4.8	UJ	No	4.8	UJ	No	4.8	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	4.9	U	No	4.9	UJ	No	0.61	J	Yes	4.9	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	4.9	U	No	4.9	UJ	No	4.9	UJ	No	4.9	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	1.5	J	Yes	6.2	UJ	No	6.2	UJ	No	6.2	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	1	J	Yes	5	UJ	No	5	UJ	No	5	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	1.8	J	Yes	2.6	UJ	No	2.6	J	Yes	2.9	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	1.9	J	Yes	2.5	UJ	No	3.3	J	Yes	2.5	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	1.8	J	Yes	2.5	UJ	No	2.4	J	Yes	1.4	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	1.8	J	Yes	2.5	UJ	No	2.8	J	Yes	2.3	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	2.2	J	Yes	2.5	UJ	No	2.8	J	Yes	2.5	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	2.5	J	Yes	2.5	UJ	No	2.3	J	Yes	2.5	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	2	J	Yes	2.8	UJ	No	2.6	J	Yes	2.8	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	2	J	Yes	2.6	UJ	No	2.4	J	Yes	2.6	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	1	J	Yes	0.6	J	Yes	2	J	Yes	5	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	0.97	J	Yes	5	UJ	No	1.4	J	Yes	5	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	1.9	J	Yes	0.58	J	Yes	4.3	J	Yes	5	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	5	U	No	0.59	J	Yes	1.1	J	Yes	5	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	1.4	J	Yes	5	UJ	No	5	UJ	No	5	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	5	U	No	5	UJ	No	5	UJ	No	5	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.94	J	Yes	4.9	UJ	No	1.3	J	Yes	4.9	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	7	U	No	7	UJ	No	0.89	J	Yes	7	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	4.7	U	No	4.7	UJ	No	4.7	UJ	No	4.7	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	5	U	No	5	UJ	No	5	UJ	No	5	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	1.7	J	Yes	1.4	J	Yes	2.2	J	Yes	2.5	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	0.96	J	Yes	2.5	UJ	No	1.4	J	Yes	2.5	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	2.6	J	Yes	1.8	J	Yes	2.8	J	Yes	2.9	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	2.5	U	No	1.2	J	Yes	1.5	J	Yes	2.5	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	1.9	J	Yes	2.5	UJ	No	2.5	UJ	No	2.5	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

					Lipids			Percent moisture		
					%			percent		
Species	Tissue Type	Event	Reach	Field Sample ID	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	5		Yes	70.6		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	5		Yes	65.2		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	3.8		Yes	64.8		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	4.1		Yes	63.7		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	4.3		Yes	60.4		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	6.2		Yes	63.6		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	1.9		Yes	64		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	5.4		Yes	69.2		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	7.1		Yes	63.4		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	15.2		Yes	56.1		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	3.8		Yes	75.6		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	7		Yes	71.7		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	8.8		Yes	67.1		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	3		Yes	65.2		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	7.9		Yes	66.2		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	5.5		Yes	63.1		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	3.3		Yes	63.2		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	1.2		Yes	72.9		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	1.8		Yes	64		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	5.4		Yes	56.3		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	4.4		Yes	72.5		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	14		Yes	59.3		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	1		Yes	76.7		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.81		Yes	77.5		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	2.7		Yes	72.1		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	8.4		Yes	65.8		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	4.5		Yes	72.9		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	6		Yes	68.3		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	6.2		Yes	65.9		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	3.6		Yes	64.4		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	6.1		Yes	63.3		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	5.9		Yes	63.4		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	2.5		Yes	63.6		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	3.5		Yes	70.9		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	4.9		Yes	63.6		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	10		Yes	56.2		Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	3.1		Yes	73.4		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	1.1		Yes	80.6		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.88		Yes	81.4		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.84		Yes	82		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	1.3		Yes	80.2		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.47		Yes	82.9		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.97		Yes	79.6		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	3.1		Yes	74.4		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	0.83		Yes	77.7		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	1.9		Yes	76.7		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	3.6		Yes	73.8		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	2.8		Yes	71.5		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	1.5		Yes	78		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	12.2		Yes	63.9		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	6.1		Yes	67.3		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	11		Yes	66.2		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	8.9		Yes	65.4		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	11		Yes	68.2		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	2.6		Yes	77.6		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	3		Yes	71.3		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	7.2		Yes	69.6		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	2.8		Yes	76.5		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	2.7		Yes	77		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	2.4		Yes	77.6		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	5.1		Yes	73.6		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	2.8		Yes	72.8		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	3.8		Yes	74.5		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	7.5		Yes	69.4		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	8.5		Yes	68.6		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	4		Yes	75.5		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	7.9		Yes	69.5		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	9.7		Yes	67.3		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	10		Yes	68.6		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	9		Yes	66.5		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	5.1		Yes	70.2		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	9.1		Yes	68.5		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	7		Yes	67.7		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	8.7		Yes	70.2		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	3.5		Yes	73.8		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	3.9		Yes	72.1		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	7.2		Yes	70.7		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	8		Yes	68.3		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	1		Yes	80.8		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	1.9		Yes	78.6		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	2.2		Yes	79.2		Yes

Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	4.4		Yes	75.8	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	3		Yes	75.3	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	3.3		Yes	74	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	5.8		Yes	73.1	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	7		Yes	70.4	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	5		Yes	73.4	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.8		Yes	76.5	Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	3		Yes	74.8	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	1.6		Yes	72.3	Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	5.4		Yes	70.1	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	3.7		Yes	68.7	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	3.3		Yes	70.4	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	4.8		Yes	68.9	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.78		Yes	76.1	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.88		Yes	77	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.87		Yes	77.6	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	2.6		Yes	71.6	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	2.3		Yes	73.1	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	3.1		Yes	72.6	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	3.2		Yes	71.1	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	4.2		Yes	69.7	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	3.2		Yes	70.1	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	3.1		Yes	69.4	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	4		Yes	67.1	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	5.4		Yes	65.7	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	4.4		Yes	68.6	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	2.9		Yes	69.1	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.91		Yes	79.6	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	1.1		Yes	77.6	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.9		Yes	79.1	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	1		Yes	76	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	1		Yes	76.4	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	1.6		Yes	77.2	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	1.1		Yes	77.3	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.92		Yes	78.3	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	2.3		Yes	74.3	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	3		Yes	72.8	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	2.3		Yes	73.6	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	2.2		Yes	72.1	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	2.8		Yes	70.8	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	3.9		Yes	70.3	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	3		Yes	72.3	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	2.1		Yes	72.9	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	4		Yes	66.7	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	5.2		Yes	65.5	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	2.4		Yes	75.2	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	10.4		Yes	68.4	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	5.1		Yes	67.1	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	1.1		Yes	73.8	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	1.6		Yes	65.4	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.83		Yes	64.9	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	2.6		Yes	68.4	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	1.6		Yes	65.9	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	2.7		Yes	69.9	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	3.9		Yes	65.5	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	1.7		Yes	70.7	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	7.9		Yes	68.4	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	3.7		Yes	66.6	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					Aluminum			Antimony			Arsenic			Arsenic (inorganic)		
					mg/kg			mg/kg			mg/kg			mg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	5.07		Yes	0.0148	UJ	No	0.039	J	Yes	0.009	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	2.28		Yes	0.0164	UJ	No	0.034	J	Yes	0.009	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	2.72		Yes	0.0173	UJ	No	0.043	J	Yes	0.009	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	1.81		Yes	0.0176	UJ	No	0.032	J	Yes	0.01	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	1.08		Yes	0.0194	UJ	No	0.032	J	Yes	0.01	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	9.08		Yes	0.0182	UJ	No	0.038	J	Yes	0.01	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	1.16		Yes	0.0179	UJ	No	0.029	J	Yes	0.01	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	1.9		Yes	0.0155	UJ	No	0.027	J	Yes	0.01	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	1.98		Yes	0.018	UJ	No	0.021	J	Yes	0.009	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	1.06		Yes	0.0228	UJ	No	0.029	J	Yes	0.009	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.53	J	Yes	0.0123	UJ	No	0.029	J	Yes	0.01	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.83	J	Yes	0.0138	UJ	No	0.023	J	Yes	0.01	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	0.71	J	Yes	0.016	UJ	No	0.037	J	Yes	0.009	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	0.66	U	No	0.0164	UJ	No	0.024	J	Yes	0.01	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.65	U	No	0.0163	UJ	No	0.029	J	Yes	0.01	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.72	U	No	0.0179	UJ	No	0.03	J	Yes	0.009	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	0.72	U	No	0.018	UJ	No	0.041	J	Yes	0.009	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.52	U	No	0.0129	UJ	No	0.025	J	Yes	0.009	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.69	U	No	0.0173	UJ	No	0.022	J	Yes	0.01	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	0.85	U	No	0.0212	UJ	No	0.029	J	Yes	0.009	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	1.66		Yes	0.0131	UJ	No	2.78		Yes	0.01	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	4.52		Yes	0.0201	UJ	No	0.201	U	No	0.01	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	2.13		Yes	0.0114	UJ	No	0.216		Yes	0.01	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	4.37		Yes	0.0113	UJ	No	0.225		Yes	0.009	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	1.67		Yes	0.0139	UJ	No	0.139	U	No	0.01	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	2.39		Yes	0.0168	UJ	No	0.168	U	No	0.009	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	3	J	Yes	0.00683	UJ	No	0.034	J	Yes	0.005	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	1.6	J	Yes	0.00758	UJ	No	0.029	J	Yes	0.005	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	1.8	J	Yes	0.00834	UJ	No	0.04	J	Yes	0.005	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	1.1		Yes	0.00853	UJ	No	0.028	J	Yes	0.005	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	0.7		Yes	0.00892	UJ	No	0.03	J	Yes	0.005	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	5.6		Yes	0.00904	UJ	No	0.035	J	Yes	0.005	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.8		Yes	0.00897	UJ	No	0.034	J	Yes	0.005	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	1.1		Yes	0.00715	UJ	No	0.026	J	Yes	0.005	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	1.3		Yes	0.0089	UJ	No	0.021	J	Yes	0.005	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.75		Yes	0.011	UJ	No	0.029	J	Yes	0.005	U	No
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	11.6		Yes	0.0544	J	Yes	0.067	J	Yes	0.004	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.78		Yes	0.01	U	No	0.013	J	Yes	0.009	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.37	U	No	0.0093	U	No	0.018	J	Yes	0.01	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.35	U	No	0.0088	U	No	0.011	J	Yes	0.009	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.4	U	No	0.01	U	No	0.01	J	Yes	0.009	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.33	U	No	0.0082	U	No	0.011	J	Yes	0.009	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.41	U	No	0.0103	U	No	0.02	J	Yes	0.009	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	12.7		Yes	0.0126	U	No	0.028	J	Yes	0.005	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	95.7		Yes	0.0277		Yes	0.079	J	Yes	0.033		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	6.67		Yes	0.012	U	No	0.026	J	Yes	0.006	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	159		Yes	0.027		Yes	0.091	J	Yes	0.046		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	1.31		Yes	0.0137	U	No	0.013	J	Yes	0.01	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	24.3		Yes	0.0111	U	No	0.034	J	Yes	0.007	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	4.98		Yes	0.0184	U	No	0.064	J	Yes	0.009	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	7.76		Yes	0.0168	U	No	0.109	J	Yes	0.01	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	20.2		Yes	0.0176	U	No	0.091	J	Yes	0.012		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	21.2		Yes	0.0167	U	No	0.055	J	Yes	0.012		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	33.8		Yes	0.016	U	No	0.072	J	Yes	0.016		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	0.62	J	Yes	0.0115	U	No	0.064	J	Yes	0.01	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	0.41	U	No	0.0009	U	No	0.085	J	Yes	0.009	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	0.63	U	No	0.0158	U	No	0.06	J	Yes	0.009	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	1.53		Yes	0.0122	U	No	0.133		Yes	0.01	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	1.46		Yes	0.0008	U	No	0.107	J	Yes	0.009	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	0.59	J	Yes	0.0111	U	No	0.057	J	Yes	0.009	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	0.74	J	Yes	0.0132	U	No	0.203		Yes	0.009	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	0.53	U	No	0.0132	U	No	0.053	J	Yes	0.009	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	0.67	J	Yes	0.013	U	No	0.056	J	Yes	0.009	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	0.59	U	No	0.0147	U	No	0.084	J	Yes	0.009	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	0.63	U	No	0.0158	U	No	0.062	J	Yes	0.01	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	8.18		Yes	0.0128	U	No	0.068	J	Yes	0.01	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	1.66		Yes	0.0151	U	No	0.052	J	Yes	0.01	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	7.23		Yes	0.0165	U	No	0.071	J	Yes	0.009	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	11.1		Yes	0.0154	U	No	0.046	J	Yes	0.009	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	3.3		Yes	0.006	U	No	0.071	J	Yes	0.005	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	5.82		Yes	0.00768	U	No	0.116	J	Yes	0.005	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	14	J	Yes	0.00811	U	No	0.13	J	Yes	0.01		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	15		Yes	0.00781	U	No	0.054	J	Yes	0.01		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	23	J	Yes	0.0075	U	No	0.067	J	Yes	0.01		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	3.54		Yes	0.0132	U	No	0.015	J	Yes	0.01	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	5.02		Yes	0.0146	U	No	0.048	J	Yes	0.009	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	10.8		Yes	0.0146	U	No	0.019	J	Yes	0.009	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	1.08		Yes	0.0165	U	No	0.018	J	Yes	0.009	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.39	U	No	0.0097	U	No	0.012	J	Yes	0.009	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.48	J	Yes	0.019		Yes	0.025	J	Yes	0.009	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	0.42	U	No	0.0105	U	No	0.012	J	Yes	0.009	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

					Barium			Beryllium			Cadmium			Calcium			Chromium			Cobalt			Copper			Iron	
					mg/kg			mg/kg			mg/kg			mg/kg			mg/kg			mg/kg			mg/kg			mg/kg	
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	1.17		Yes	0.0059	U	No	0.0368	J	Yes	9210		Yes	0.921	J	Yes	0.0349	J	Yes	0.999		Yes	39.8	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.511		Yes	0.0065	U	No	0.0752	J	Yes	11200		Yes	0.805	J	Yes	0.0364	J	Yes	0.903		Yes	32.4	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	0.625		Yes	0.0069	U	No	0.0328	J	Yes	12000		Yes	0.674	J	Yes	0.0238	J	Yes	0.772		Yes	35.2	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	0.53		Yes	0.007	U	No	0.0549	J	Yes	9120		Yes	0.425	J	Yes	0.0207	J	Yes	0.779		Yes	27.3	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	0.496		Yes	0.0078	U	No	0.054	J	Yes	9540		Yes	0.512	J	Yes	0.0199	J	Yes	0.888		Yes	27.2	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	0.915		Yes	0.0073	U	No	0.0692	J	Yes	9620		Yes	1.23	J	Yes	0.0435	J	Yes	1.03		Yes	58.9	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.476		Yes	0.0072	U	No	0.119	J	Yes	7560		Yes	0.316	J	Yes	0.0539	J	Yes	1.24		Yes	36.3	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.494		Yes	0.0062	U	No	0.0801	J	Yes	11500		Yes	0.892	J	Yes	0.0336	J	Yes	0.84		Yes	36.7	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.273		Yes	0.0072	U	No	0.0649	J	Yes	8690		Yes	0.384	J	Yes	0.0245	J	Yes	0.733		Yes	28.1	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	0.261		Yes	0.0091	U	No	0.0195	J	Yes	7160		Yes	0.483	J	Yes	0.0366	J	Yes	1.87		Yes	30.8	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.157		Yes	0.0049	U	No	0.0023	J	Yes	325		Yes	0.326	J	Yes	0.0124	J	Yes	0.219	J	Yes	4.91	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.0805		Yes	0.0055	U	No	0.0034	J	Yes	302		Yes	0.254	J	Yes	0.0149	J	Yes	0.292	J	Yes	7.01	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	0.0754		Yes	0.0064	U	No	0.0007	J	Yes	202		Yes	0.289	J	Yes	0.01	J	Yes	0.189	J	Yes	4.97	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	0.0602		Yes	0.0066	U	No	0.0017	J	Yes	222		Yes	0.295	J	Yes	0.0127	J	Yes	0.331	J	Yes	6.79	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.0678		Yes	0.001	J	Yes	0.0065	UJ	No	208		Yes	0.29	J	Yes	0.0206	J	Yes	0.168	J	Yes	5.14	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.0991		Yes	0.0071	U	No	0.0035	J	Yes	328		Yes	0.125	J	Yes	0.0119	J	Yes	0.302	J	Yes	5.47	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	0.0473		Yes	0.0072	U	No	0.0026	J	Yes	167		Yes	0.389	J	Yes	0.0172	J	Yes	0.302	J	Yes	8.32	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.0567		Yes	0.0052	U	No	0.0052	UJ	No	301		Yes	0.116	J	Yes	0.0095	J	Yes	0.238	J	Yes	4.05	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.0398		Yes	0.0069	U	No	0.0069	UJ	No	204		Yes	0.464	J	Yes	0.0151	J	Yes	0.322	J	Yes	7.57	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	0.0327	J	Yes	0.0085	U	No	0.0085	UJ	No	213		Yes	0.098	J	Yes	0.0131	J	Yes	0.371	J	Yes	5.81	J
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.341		Yes	0.0052	U	No	0.0374		Yes	6530		Yes	2.19		Yes	0.031	J	Yes	0.469	J	Yes	26.3	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	0.465		Yes	0.008	U	No	0.0652		Yes	6280		Yes	0.421		Yes	0.029	J	Yes	1.15		Yes	23.2	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.394		Yes	0.0046	U	No	0.0689		Yes	5680		Yes	0.596		Yes	0.02	J	Yes	0.536		Yes	24.4	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	1.05		Yes	0.0007	J	Yes	0.0432		Yes	8640		Yes	1.95		Yes	0.0354	J	Yes	0.501	J	Yes	25	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.204		Yes	0.0056	U	No	0.024		Yes	4700		Yes	0.534		Yes	0.0187	J	Yes	0.415	J	Yes	17.6	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	0.323		Yes	0.0067	U	No	0.0586		Yes	5130		Yes	0.431		Yes	0.0242	J	Yes	0.613		Yes	18.8	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.708		Yes	0.0027	U	No	0.021	J	Yes	5160		Yes	0.65	J	Yes	0.0246	J	Yes	0.643	J	Yes	23.9	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.304		Yes	0.003	U	No	0.041	J	Yes	5970		Yes	0.541	J	Yes	0.0261	J	Yes	0.61	J	Yes	20.2	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	0.365		Yes	0.0033	U	No	0.02	J	Yes	6400		Yes	0.492	J	Yes	0.0173	J	Yes	0.496	J	Yes	20.9	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	0.32		Yes	0.0034	U	No	0.031	J	Yes	5130		Yes	0.367	J	Yes	0.0171	J	Yes	0.578	J	Yes	18.1	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	0.281		Yes	0.0024	J	Yes	0.029	J	Yes	4860		Yes	0.401	J	Yes	0.0203	J	Yes	0.527	J	Yes	16.1	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	0.588		Yes	0.0036	U	No	0.043	J	Yes	5890		Yes	0.787	J	Yes	0.0308	J	Yes	0.738	J	Yes	37.5	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.283		Yes	0.0036	U	No	0.067	J	Yes	4230		Yes	0.349	J	Yes	0.0374	J	Yes	0.818	J	Yes	23.7	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.293		Yes	0.0029	U	No	0.045	J	Yes	6360		Yes	0.536	J	Yes	0.023	J	Yes	0.564	J	Yes	21.7	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.177		Yes	0.0035	U	No	0.04	J	Yes	5190		Yes	0.417	J	Yes	0.0206	J	Yes	0.563	J	Yes	19.6	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.15	J	Yes	0.0044	U	No	0.012	J	Yes	3770		Yes	0.3	J	Yes	0.0251	J	Yes	1.14	J	Yes	18.6	J
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	2.45		Yes	0.0054	U	No	0.0088		Yes	13400		Yes	2.59		Yes	0.0486	J	Yes	1.49		Yes	43.1	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.0429	J	Yes	0.004	U	No	0.0005	J	Yes	152		Yes	0.146		Yes	0.0089	J	Yes	0.314		Yes	5.78	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.0449	J	Yes	0.0037	U	No	0.0005	J	Yes	184		Yes	0.142		Yes	0.0048	J	Yes	0.4		Yes	6.15	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.039	J	Yes	0.0035	U	No	0.0035	U	No	87		Yes	0.161		Yes	0.0068	J	Yes	0.326		Yes	4.69	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.0592	J	Yes	0.004	U	No	0.004	U	No	156		Yes	0.225		Yes	0.0086	J	Yes	0.316		Yes	6.78	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.0431	J	Yes	0.0033	U	No	0.0015	J	Yes	119		Yes	0.174		Yes	0.0067	J	Yes	0.301		Yes	5.16	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.0409	J	Yes	0.0041	U	No	0.0041	U	No	145		Yes	0.567		Yes	0.0107	J	Yes	0.296		Yes	6.41	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	0.813	J	Yes	0.0009	J	Yes	0.0077	J	Yes	11700		Yes	5.14		Yes	0.0839	J	Yes	0.777		Yes	60.2	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	3.86	J	Yes	0.0042	J	Yes	0.0265	J	Yes	13700		Yes	11.2		Yes	0.225	J	Yes	1.88		Yes	230	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	1.09	J	Yes	0.0048	U	No	0.0193	J	Yes	10900		Yes	7.57		Yes	0.112	J	Yes	1.18		Yes	75.3	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	3.58	J	Yes	0.0068		Yes	0.0269	J	Yes	11300		Yes	8.95		Yes	0.231	J	Yes	2.17		Yes	313	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.582	J	Yes	0.0055	U	No	0.0387	J	Yes	11900		Yes	1.4		Yes	0.0208	J	Yes	0.487		Yes	31.4	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	2.67	J	Yes	0.0012	J	Yes	0.0163	J	Yes	11400		Yes	6.26		Yes	0.098	J	Yes	1.01		Yes	89.1	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	1.69		Yes	0.0074	U	No	0.019	J	Yes	12500		Yes	0.954		Yes	0.0271	J	Yes	1.29		Yes	54.1	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	1.42		Yes	0.0067	U	No	0.0192	J	Yes	5610		Yes	0.49		Yes	0.0369	J	Yes	1.16		Yes	21.2	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	1.76		Yes	0.0071	U	No	0.0495	J	Yes	11200		Yes	5.35		Yes	0.0856	J	Yes	1.8		Yes	90.6	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	1.09		Yes	0.001	J	Yes	0.0953	J	Yes	5920		Yes	3.21		Yes	0.0844	J	Yes	1.87		Yes	99.2	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	1.6		Yes	0.0017	J	Yes	0.0499	J	Yes	6540		Yes	3.44		Yes	0.0775	J	Yes	1.4		Yes	113	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	0.0497		Yes	0.0046	U	No	0.0011	J	Yes	238		Yes	0.485		Yes	0.011	J	Yes	0.867		Yes	24.2	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	0.0675		Yes	0.0055	U	No	0.0055	U	No	313		Yes	0.322		Yes	0.0109	J	Yes	0.838		Yes	19.1	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	0.065		Yes	0.0063	U	No	0.001	J	Yes	405		Yes	0.155		Yes	0.0097	J	Yes	0.75		Yes	18.5	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	0.0966		Yes	0.0049	U	No	0.0005	J	Yes	436		Yes	0.195		Yes	0.0061	J	Yes	0.408		Yes	10	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	0.095		Yes	0.0047	U	No	0.0012	J	Yes	338		Yes	0.333		Yes	0.0123	J	Yes	0.988		Yes	25	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	0.0792		Yes	0.0044	U	No	0.0038	J	Yes	289		Yes	0.472		Yes	0.0156	J	Yes	0.719		Yes	20.5	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	0.0787		Yes	0.0053	U	No	0.0016	J	Yes	405		Yes	0.398		Yes	0.0072	J	Yes	0.462		Yes	14.2	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	0.0886		Yes	0.0053	U	No	0.0023	J	Yes	442		Yes	0.39		Yes	0.0177	J	Yes	1.15		Yes	31	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	0.0852		Yes	0.0052	U	No	0.0017	J	Yes	303		Yes	0.451		Yes	0.0145	J	Yes	0.96		Yes	25.9	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	0.0769		Yes	0.0059	U	No	0.0039	J	Yes	340		Yes	0.256		Yes	0.0123	J	Yes	0.938		Yes	23.8	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	0.845		Yes	0.0063	U	No	0.0369	J	Yes	9010		Yes	0.265		Yes	0.0274	J	Yes	1.07		Yes	40.2	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	1.02		Yes	0.0051	U	No	0.0092	J	Yes	7350		Yes	1.08		Yes	0.0258	J	Yes	1.14		Yes	37.8	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	1.73		Yes	0.006	U	No	0.0339	J	Yes	11300		Yes	0.541		Yes	0.0267	J	Yes	1.33		Yes	43.5	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	0.571		Yes	0.0066	U	No	0.0095	J	Yes	6120		Yes	0.689		Yes	0.0227	J	Yes	1		Yes	36.8	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	1.02		Yes	0.001	J	Yes	0.044	J	Yes	5400		Yes	1.28		Yes	0.0415	J	Yes	1.06		Yes	61.4	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	1.12		Yes	0.0034	U	No	0.013	J	Yes	8230		Yes	0.733		Yes	0.0214	J	Yes	1.13		Yes	41.9	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	1.01		Yes	0.0031	U	No	0.01	J	Yes	4000		Yes	0.398		Yes	0.027	J	Yes	0.926		Yes	17.7	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	1.23		Yes	0.0033	U	No	0.034	J	Yes	7810		Yes	3.8		Yes	0.061	J	Yes	1.38		Yes	66.6	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	0.78		Yes	0.0015	J	Yes	0.066	J	Yes	4220		Yes	2.34		Yes	0.0637	J	Yes	1.65		Yes	78.1	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	1.11		Yes	0.002	J	Yes	0.034	J	Yes	4510		Yes	2.47		Yes	0.057	J	Yes	1.26		Yes	84.7	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	0.595	J	Yes	0.0053	U	No	0.0092	J	Yes	15100		Yes	1.63		Yes	0.0233	J	Yes	0.704		Yes	53.8	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	0.738	J	Yes	0.0058	U	No	0.0113	J	Yes	19900		Yes	4.27		Yes	0.0638	J	Yes	0.503		Yes	46.2	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	0.556	J	Yes	0.0059	U	No	0.0318	J	Yes	12100		Yes	17.9		Yes	0.232	J	Yes	0.936		Yes	117	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	0.554	J	Yes	0.0066	U	No	0.0206	J	Yes	15000		Yes	0.999		Yes	0.0202	J	Yes	0.432		Yes	31	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.0322	J	Yes	0.0039	U	No	0.0011	J	Yes	193		Yes	0.462		Yes	0.005	J	Yes	0.583		Yes	11.5	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.117	J	Yes	0.0016	J	Yes	0.0034	J	Yes	101		Yes	0.172		Yes	0.0275	J	Yes	0.308		Yes	5.44	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	0.031	J	Yes	0.0042	U	No	0.0019	J	Yes	84.8		Yes	0.352		Yes	0.0034	J	Yes	0.257		Yes	5.18	

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					Lead			Magnesium			Manganese			Mercury			Methyl mercury			Nickel			Potassium			Selenium	
					mg/kg			mg/kg			mg/kg			µg/kg			µg/kg			mg/kg			mg/kg			mg/kg	
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.324		Yes	330		Yes	3.56	J	Yes	163		Yes	125		Yes	0.471	J	Yes	2740		Yes	0.726	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.305		Yes	367		Yes	3.91	J	Yes	165		Yes	139		Yes	0.436	J	Yes	2810		Yes	0.849	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	0.402		Yes	375		Yes	5.03	J	Yes	179		Yes	141		Yes	0.293	J	Yes	2600		Yes	0.876	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	0.59		Yes	315		Yes	3.98	J	Yes	139		Yes	110		Yes	0.167	J	Yes	2570		Yes	0.844	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	0.793		Yes	324		Yes	2.8	J	Yes	163		Yes	133		Yes	0.19	J	Yes	2680		Yes	0.918	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	0.68		Yes	327		Yes	6.58	J	Yes	115		Yes	92.8		Yes	0.769	J	Yes	2670		Yes	0.957	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.557		Yes	271		Yes	3.92	J	Yes	236		Yes	181		Yes	0.171	J	Yes	2590		Yes	0.79	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.408		Yes	358		Yes	3.7	J	Yes	189		Yes	142		Yes	0.553	J	Yes	2640		Yes	0.723	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.366		Yes	296		Yes	2.81	J	Yes	217		Yes	166		Yes	0.19	J	Yes	2530		Yes	1	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	0.138		Yes	268		Yes	2.22	J	Yes	203		Yes	156		Yes	0.319	J	Yes	2380		Yes	0.612	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.0154		Yes	217		Yes	0.472	J	Yes	279		Yes	224		Yes	0.256	J	Yes	3260		Yes	0.471	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.014		Yes	200		Yes	0.375	J	Yes	325		Yes	240		Yes	0.279	J	Yes	3360		Yes	0.534	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	0.0132		Yes	201		Yes	0.322	J	Yes	349		Yes	275		Yes	0.279	J	Yes	3230		Yes	0.44	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	0.0242		Yes	200		Yes	0.337	J	Yes	272		Yes	224		Yes	0.345	J	Yes	3220		Yes	0.522	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.0215		Yes	187		Yes	0.276	J	Yes	294		Yes	215		Yes	0.301	J	Yes	2880		Yes	0.557	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.0478		Yes	192		Yes	0.381	J	Yes	198		Yes	162		Yes	0.071	UJ	No	2880		Yes	0.517	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	0.0124		Yes	196		Yes	0.355	J	Yes	431		Yes	345		Yes	0.426	J	Yes	3070		Yes	0.446	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.0259		Yes	202		Yes	0.32	J	Yes	343		Yes	245		Yes	0.059	J	Yes	3280		Yes	0.598	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.0125		Yes	190		Yes	0.295	J	Yes	408		Yes	314		Yes	0.412	J	Yes	3250		Yes	0.5	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	0.0085	U	No	183		Yes	0.237	J	Yes	373		Yes	279		Yes	0.085	UJ	No	2810		Yes	0.308	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.226		Yes	304		Yes	3.63	J	Yes	153		Yes	121		Yes	1.03	J	Yes	3010		Yes	0.511	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	0.702		Yes	282		Yes	4.09	J	Yes	212		Yes	169		Yes	0.252	J	Yes	2110		Yes	0.495	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.314		Yes	292		Yes	2.88	J	Yes	191		Yes	166		Yes	0.518	J	Yes	3100		Yes	0.572	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.225		Yes	364		Yes	4.12	J	Yes	157		Yes	121		Yes	1.09	J	Yes	3210		Yes	0.481	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.108		Yes	282		Yes	2.54	J	Yes	240		Yes	207		Yes	0.353	J	Yes	3170		Yes	0.721	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	0.491		Yes	268		Yes	1.77	J	Yes	187		Yes	158		Yes	0.241	J	Yes	2890		Yes	0.641	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.183		Yes	280		Yes	2.15	J	Yes	216		Yes	170		Yes	0.373	J	Yes	2980		Yes	0.61	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.165		Yes	300		Yes	2.21	J	Yes	242		Yes	190		Yes	0.361	J	Yes	3070		Yes	0.698	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	0.218		Yes	293		Yes	2.8	J	Yes	259		Yes	204		Yes	0.286	J	Yes	2900		Yes	0.67	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	0.337		Yes	300		Yes	2.35	J	Yes	199		Yes	160		Yes	0.247	J	Yes	2860		Yes	0.7	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	0.406		Yes	255		Yes	1.54	J	Yes	229		Yes	174		Yes	0.246	J	Yes	2780		Yes	0.737	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	0.426		Yes	273		Yes	4.09	J	Yes	148		Yes	121		Yes	0.47	J	Yes	2750		Yes	0.781	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.312		Yes	237		Yes	2.32	J	Yes	324		Yes	255		Yes	0.286	J	Yes	2810		Yes	0.635	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.233		Yes	286		Yes	2.15	J	Yes	260		Yes	189		Yes	0.33	J	Yes	2930		Yes	0.666	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.22		Yes	250		Yes	1.77	J	Yes	296		Yes	227		Yes	0.282	J	Yes	2830		Yes	0.794	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.073		Yes	227		Yes	1.25	J	Yes	286		Yes	216		Yes	0.18	J	Yes	2590		Yes	0.464	
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	0.35		Yes	534		Yes	15.5	J	Yes	40.4	J	Yes	34.5	J	Yes	1.45	J	Yes	3440		Yes	0.488	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.0091	J	Yes	298		Yes	0.185	J	Yes	129	J	Yes	102		Yes	0.093	J	Yes	4600		Yes	0.135	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.0168	J	Yes	280		Yes	0.141	J	Yes	104	J	Yes	98		Yes	0.085	J	Yes	4510		Yes	0.097	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.0035	UJ	No	256		Yes	0.119	J	Yes	266		Yes	279		Yes	0.11	J	Yes	4280		Yes	0.092	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.0118	J	Yes	298		Yes	0.163	J	Yes	117	J	Yes	98.4		Yes	0.086	J	Yes	4740		Yes	0.135	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.0048	J	Yes	247		Yes	0.158	J	Yes	291		Yes	294		Yes	0.112	J	Yes	4200		Yes	0.114	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.0087	J	Yes	308		Yes	0.202	J	Yes	70.3	J	Yes	56.5		Yes	0.351	J	Yes	5070		Yes	0.126	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	0.335	J	Yes	431		Yes	4.28	J	Yes	204		Yes	224		Yes	3.47	J	Yes	2870		Yes	0.387	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	2.63	J	Yes	459		Yes	18.8	J	Yes	78.6	J	Yes	63.2		Yes	6.78	J	Yes	3080		Yes	0.309	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	1.31	J	Yes	400		Yes	6	J	Yes	29.7	J	Yes	29.7	J	Yes	4.97	J	Yes	3420		Yes	0.318	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	2.24	J	Yes	468		Yes	29.6	J	Yes	62.1	J	Yes	55.4		Yes	5.32	J	Yes	3390		Yes	0.326	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.288	J	Yes	433		Yes	2.36	J	Yes	254		Yes	276		Yes	0.887	J	Yes	3480		Yes	0.401	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	0.813	J	Yes	408		Yes	14.6	J	Yes	49.2	J	Yes	51.6		Yes	4.12	J	Yes	3160		Yes	0.294	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	0.919		Yes	414		Yes	2.69	J	Yes	52.6	J	Yes	58.1		Yes	0.515	J	Yes	2960		Yes	0.559	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	0.543		Yes	188		Yes	3.92	J	Yes	68	J	Yes	74.3		Yes	0.614	J	Yes	1190		Yes	0.734	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	1.19		Yes	384		Yes	4.22	J	Yes	60.3	J	Yes	60.7		Yes	3.55	J	Yes	2360		Yes	0.83	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	0.908		Yes	272		Yes	5.4	J	Yes	85	J	Yes	82.4		Yes	1.88	J	Yes	3020		Yes	0.737	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	0.977		Yes	294		Yes	5.43	J	Yes	84.4	J	Yes	82.4		Yes	2.27	J	Yes	2900		Yes	0.745	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	0.0331		Yes	247		Yes	0.22	J	Yes	140	J	Yes	148		Yes	0.29	J	Yes	3540		Yes	0.688	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	0.0275		Yes	268		Yes	0.232	J	Yes	112	J	Yes	107		Yes	0.202	J	Yes	3640		Yes	0.517	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	0.0542		Yes	265		Yes	0.235	J	Yes	167	J	Yes	150		Yes	0.089	J	Yes	3590		Yes	0.731	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	0.0388		Yes	267		Yes	0.371	J	Yes	166	J	Yes	161		Yes	0.122	J	Yes	3670		Yes	0.41	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	0.0512		Yes	262		Yes	0.323	J	Yes	132	J	Yes	134		Yes	0.197	J	Yes	3770		Yes	0.68	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	0.05		Yes	243		Yes	0.257	J	Yes	190		Yes	158		Yes	0.272	J	Yes	3470		Yes	0.621	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	0.0398		Yes	246		Yes	0.239	J	Yes	160	J	Yes	165		Yes	0.179	J	Yes	3600		Yes	0.602	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	0.0736		Yes	247		Yes	0.381	J	Yes	161	J	Yes	172		Yes	0.243	J	Yes	3470		Yes	0.662	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	0.038		Yes	228		Yes	0.282	J	Yes	150	J	Yes	151		Yes	0.322	J	Yes	3250		Yes	0.655	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	0.0312		Yes	244		Yes	0.27	J	Yes	189		Yes	198		Yes	0.186	J	Yes	3680		Yes	0.57	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	0.547		Yes	375		Yes	2.2	J	Yes	120	J	Yes	124		Yes	0.157	J	Yes	3190		Yes	0.542	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	0.256		Yes	340		Yes	2.32	J	Yes	63.6	J	Yes	58.3		Yes	0.619	J	Yes	3470		Yes	0.561	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	0.859		Yes	405		Yes	2.8	J	Yes	117	J	Yes	131		Yes	0.315	J	Yes	3030		Yes	0.653	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	0.349		Yes	303		Yes	2.28	J	Yes	43.4	J	Yes	47.5	J	Yes	0.465	J	Yes	2920		Yes	0.612	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	0.619		Yes	302		Yes	2.06	J	Yes	133	J	Yes	130		Yes	0.806	J	Yes	3170		Yes	0.585	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	0.607		Yes	363		Yes	1.83	J	Yes	73.4	J	Yes	75.2		Yes	0.405	J	Yes	3200		Yes	0.544	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	0.386		Yes	213		Yes	2.82	J	Yes	98.5	J	Yes	101		Yes	0.461	J	Yes	1960		Yes	0.633	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	0.829		Yes	341		Yes	2.97	J	Yes	92	J	Yes	93.5		Yes	2.49	J	Yes	2700		Yes	0.758	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	0.649		Yes	264		Yes	3.84	J	Yes	109	J	Yes	110		Yes	1.37	J	Yes	3160		Yes	0.714	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	0.672		Yes	273		Yes	3.76	J	Yes	110	J	Yes	105		Yes	1.64	J	Yes	3000		Yes	0.716	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	0.138	J	Yes	386		Yes	5.26	J	Yes	139	J	Yes	143		Yes	0.823	J	Yes	2570		Yes	0.308	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	0.367	J	Yes	466		Yes	3.76	J	Yes	398		Yes	373		Yes	2.46	J	Yes	2350		Yes	0.399	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	0.341	J	Yes	357		Yes	4.67	J	Yes	337		Yes	331		Yes	10.7	J	Yes	2620		Yes	0.27	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	0.437	J	Yes	399		Yes	3.68	J	Yes	121	J	Yes	116		Yes	0.549	J	Yes	2650		Yes	0.28	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.0047	J	Yes	260		Yes	0.201	J	Yes	266		Yes	231		Yes	0.101	J	Yes	4240		Yes	0.168	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.0225	J	Yes	234		Yes	0.224	J	Yes	926		Yes	998		Yes	0.12	J	Yes	4030		Yes	0.173	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	0.0042	UJ	No	247		Yes	0.143	J	Yes	624		Yes	621		Yes	0.139	J	Yes	4280		Yes	0.195	

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					Silver			Sodium			Thallium			Titanium			Vanadium			Zinc		
					mg/kg			mg/kg			mg/kg			mg/kg			mg/kg			mg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.0071		Yes	1170		Yes	0.0059	U	No	0.189	J	Yes	0.053	J	Yes	30.8		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.0085		Yes	1290		Yes	0.0066	U	No	0.065	J	Yes	0.052	J	Yes	32.8		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	0.0069	U	No	1120		Yes	0.0069	U	No	0.086	J	Yes	0.062	J	Yes	32.7		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	0.007	U	No	1140		Yes	0.007	U	No	0.042	J	Yes	0.042	J	Yes	35.6		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	0.0036	J	Yes	956		Yes	0.0078	U	No	0.078	UJ	No	0.047	J	Yes	40.6		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	0.0073	U	No	1140		Yes	0.0073	U	No	0.396	J	Yes	0.105	J	Yes	31		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.0129		Yes	1110		Yes	0.0072	U	No	0.072	UJ	No	0.039	J	Yes	39.2		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.0032	J	Yes	1320		Yes	0.0062	U	No	0.136	J	Yes	0.074	J	Yes	29.9		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.0027	J	Yes	1240		Yes	0.0072	U	No	0.04	J	Yes	0.054	J	Yes	38.4		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	0.005	J	Yes	1110		Yes	0.0091	U	No	0.087	J	Yes	0.064	J	Yes	56.4		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.0049	U	No	649		Yes	0.0049	U	No	0.027	J	Yes	0.099	U	No	17.1		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.0055	U	No	826		Yes	0.0055	U	No	0.033	J	Yes	0.111	U	No	24.6		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	0.0064	U	No	634		Yes	0.0064	U	No	0.064	UJ	No	0.128	U	No	27.8		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	0.0066	U	No	815		Yes	0.0066	U	No	0.066	UJ	No	0.131	U	No	28.9		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.0065	U	No	593		Yes	0.0065	U	No	0.065	UJ	No	0.13	U	No	28.8		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.0071	U	No	779		Yes	0.0072	U	No	0.071	UJ	No	0.143	U	No	26.8		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	0.0072	U	No	674		Yes	0.0072	U	No	0.072	UJ	No	0.144	U	No	31.7		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.0052	U	No	793		Yes	0.0052	U	No	0.052	UJ	No	0.104	U	No	25.8		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.0069	U	No	635		Yes	0.0069	U	No	0.069	UJ	No	0.138	U	No	35.9		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	0.0085	U	No	570		Yes	0.0085	U	No	0.085	UJ	No	0.17	U	No	39.6		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.0018	J	Yes	908		Yes	0.0052	U	No	0.082	J	Yes	0.041	J	Yes	30.7		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	0.0159		Yes	889		Yes	0.008	U	No	0.204	J	Yes	0.079	J	Yes	24.3		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.0025	J	Yes	1150		Yes	0.0046	U	No	1.55	J	Yes	0.03	J	Yes	22.6		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.0026	J	Yes	967		Yes	0.0045	U	No	0.239	J	Yes	0.048	J	Yes	23.3		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.0056	U	No	820		Yes	0.0056	U	No	0.065	J	Yes	0.022	J	Yes	24.8		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	0.0036	J	Yes	935		Yes	0.0067	U	No	0.107	J	Yes	0.047	J	Yes	31.2		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.005		Yes	932		Yes	0.0027	U	No	0.12	J	Yes	0.051	J	Yes	24.6		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.0057		Yes	1070		Yes	0.003	U	No	0.05	J	Yes	0.054	J	Yes	28.9		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	0.0033	U	No	890		Yes	0.0033	U	No	0.06	J	Yes	0.063	J	Yes	30.4		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	0.003	U	No	994		Yes	0.003	U	No	0.038	J	Yes	0.053	J	Yes	32.6		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	0.0034	J	Yes	774		Yes	0.0036	U	No	0.036	UJ	No	0.056	J	Yes	34.7		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	0.0036	U	No	995		Yes	0.0036	U	No	0.25	J	Yes	0.0916	J	Yes	29.3		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.0087		Yes	914		Yes	0.0036	U	No	0.036	UJ	No	0.054	J	Yes	35.8		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.0029	J	Yes	1080		Yes	0.0029	U	No	0.086	J	Yes	0.064	J	Yes	28		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.003	J	Yes	990		Yes	0.0035	U	No	0.038	J	Yes	0.06	J	Yes	37.4		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.0046	J	Yes	850		Yes	0.0044	U	No	0.065	J	Yes	0.074	J	Yes	48.2		Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	0.0065		Yes	1090		Yes	0.0054	UJ	No	0.538	J	Yes	0.132		Yes	37		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.004	U	No	563		Yes	0.004	U	No	0.04	U	No	0.08	U	No	4.39		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.0037	U	No	532		Yes	0.0037	U	No	0.037	U	No	0.074	U	No	3.99		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.0035	U	No	488		Yes	0.0035	U	No	0.035	U	No	0.07	U	No	3.74		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.004	U	No	536		Yes	0.004	U	No	0.04	U	No	0.02	J	Yes	4.9		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.0033	U	No	596		Yes	0.0033	U	No	0.033	U	No	0.015	J	Yes	3.79		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.0041	U	No	525		Yes	0.0041	U	No	0.041	U	No	0.018	J	Yes	4.49		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	0.0017	J	Yes	1190		Yes	0.0051	U	No	0.684		Yes	0.232		Yes	17.2		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	0.0202		Yes	1280		Yes	0.0043	U	No	3.94		Yes	0.563		Yes	21.3		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	0.0042	J	Yes	1260		Yes	0.0048	U	No	0.592		Yes	0.175		Yes	15.6		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	0.0146		Yes	1100		Yes	0.0053	U	No	7.46		Yes	0.689		Yes	20.5		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.0055	U	No	1180		Yes	0.0055	U	No	0.049	J	Yes	0.14		Yes	18.2		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	0.0031	J	Yes	1150		Yes	0.0044	U	No	1.29		Yes	0.313		Yes	17		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	0.0107		Yes	916		Yes	0.0074	U	No	0.287		Yes	0.092	J	Yes	125		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	0.0061	J	Yes	480		Yes	0.0067	U	No	0.19		Yes	0.046	J	Yes	90.7		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	0.016		Yes	1090		Yes	0.0071	U	No	1.11		Yes	0.194		Yes	72.6		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	0.0174		Yes	1060		Yes	0.0067	U	No	1.06		Yes	0.325		Yes	78.7		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	0.0053	J	Yes	985		Yes	0.0064	U	No	1.68		Yes	0.234		Yes	69.9		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	0.0046	U	No	563		Yes	0.0046	U	No	0.051		Yes	0.092	U	No	16.6		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	0.0055	U	No	379		Yes	0.00029	U	No	0.055	U	No	0.027	J	Yes	17.3		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	0.0063	U	No	502		Yes	0.0063	U	No	0.063	U	No	0.126	U	No	23.1		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	0.0049	U	No	463		Yes	0.0049	U	No	0.083		Yes	0.098	U	No	16.3		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	0.0047	U	No	452		Yes	0.00027	U	No	0.103		Yes	0.028	J	Yes	15.9		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	0.0044	U	No	457		Yes	0.0044	U	No	0.04	J	Yes	0.089	U	No	19.8		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	0.0053	U	No	475		Yes	0.0053	U	No	0.042	J	Yes	0.105	U	No	11.1		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	0.0053	U	No	550		Yes	0.0053	U	No	0.053	U	No	0.021	J	Yes	14.7		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	0.0052	U	No	430		Yes	0.0052	U	No	0.052	U	No	0.104	U	No	14.3		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	0.0059	U	No	544		Yes	0.0059	U	No	0.059	U	No	0.118	U	No	10.2		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	0.0072		Yes	793		Yes	0.0063	U	No	0.063	U	No	0.095	J	Yes	90.9		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	0.0063		Yes	1070		Yes	0.0051	U	No	0.383		Yes	0.084	J	Yes	70.7		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	0.0067		Yes	946		Yes	0.0061	U	No	0.091		Yes	0.091	J	Yes	80.4		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	0.0053	J	Yes	857		Yes	0.0066	U	No	0.356		Yes	0.059	J	Yes	68.5		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	0.0093		Yes	861		Yes	0.0062	U	No	0.585		Yes	0.126		Yes	68.4		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	0.0079		Yes	728		Yes	0.0025	U	No	0.2		Yes	0.069	J	Yes	87.3		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	0.005	J	Yes	470		Yes	0.0031	U	No	0.16		Yes	0.047	J	Yes	67.6		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	0.012		Yes	897		Yes	0.0033	U	No	0.77	J	Yes	0.15		Yes	53.3		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	0.013		Yes	900		Yes	0.0031	U	No	0.74		Yes	0.23	J	Yes	58.9		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	0.0044	J	Yes	800		Yes	0.003	U	No	1.1		Yes	0.175		Yes	51.8		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	0.002	J	Yes	1630		Yes	0.0053	U	No	0.195		Yes	0.219		Yes	16.4		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	0.0058	U	No	1570		Yes	0.0058	U	No	0.386		Yes	0.129		Yes	24.5		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	0.0059	U	No	1380		Yes	0.0059	U	No	1		Yes	0.231		Yes	23.3		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	0.0066	U	No	1410		Yes	0.0066	U	No	0.066	U	No	0.086	J	Yes	24.9		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.0039	U	No	696		Yes	0.0039	U	No	0.039	U	No	0.017	J	Yes	6.62		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.0023	J	Yes	742		Yes	0.0064		Yes	0.042	U	No	0.084	U	No	7.68		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	0.0042	U	No	598		Yes	0.0042	U	No	0.042	U	No	0.084	U	No	6.28		Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	Aluminum mg/kg			Antimony mg/kg			Arsenic mg/kg			Arsenic (inorganic) mg/kg		
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.46	U	No	0.0114	U	No	0.016	J	Yes	0.009	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	2.8		Yes	0.0062	U	No	0.014	J	Yes	0.005	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	3.7	J	Yes	0.0108		Yes	0.041	J	Yes	0.005	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	7.8		Yes	0.00672	U	No	0.017	J	Yes	0.008	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	0.84		Yes	0.00754	U	No	0.017	J	Yes	0.005	U	No
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	1.69		Yes	0.0147	UJ	No	0.046	J	Yes	0.01	U	No
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.46	U	No	0.0114	UJ	No	0.06	J	Yes	0.009	UJ	No
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	1		Yes	0.00658	UJ	No	0.053	J	Yes	0.005	UJ	No
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	22		Yes	0.014	UJ	No	0.065	J	Yes	0.013		Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	8.27		Yes	0.0149	UJ	No	0.054	J	Yes	0.01	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	3.07		Yes	0.0153	UJ	No	0.153	U	No	0.009	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	2.69		Yes	0.0147	UJ	No	0.165		Yes	0.009	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	1.77		Yes	0.0178	J	Yes	0.149	U	No	0.009	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.47	U	No	0.0118	UJ	No	0.296		Yes	0.01	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.44	U	No	0.0109	UJ	No	0.109	U	No	0.01	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.46	U	No	0.0115	UJ	No	0.151		Yes	0.01	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	2		Yes	0.00697	UJ	No	0.161		Yes	0.005	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	1.7		Yes	0.00657	UJ	No	0.12		Yes	0.005	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	1.1		Yes	0.0127	J	Yes	0.107		Yes	0.005	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	106		Yes	0.026	J	Yes	0.089	J	Yes	0.031		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	8.78		Yes	0.0155	UJ	No	0.033	J	Yes	0.009	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	37.2		Yes	0.0155	J	Yes	0.064	J	Yes	0.02		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	30		Yes	0.0155	UJ	No	0.177		Yes	0.01		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	53.2		Yes	0.0221	J	Yes	0.066	J	Yes	0.018		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	12.8		Yes	0.0176	J	Yes	0.065	J	Yes	0.006	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	32		Yes	0.0159	UJ	No	0.063	J	Yes	0.012		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	45.1		Yes	0.0152	UJ	No	0.068	J	Yes	0.018		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.65	J	Yes	0.011	UJ	No	0.021	J	Yes	0.009	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.44	U	No	0.011	UJ	No	0.015	J	Yes	0.009	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.41	U	No	0.0102	UJ	No	0.019	J	Yes	0.01	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.44	U	No	0.011	UJ	No	0.022	J	Yes	0.009	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.48	U	No	0.0119	UJ	No	0.021	J	Yes	0.009	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.49	U	No	0.0122	UJ	No	0.031	J	Yes	0.009	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.44	U	No	0.0109	UJ	No	0.025	J	Yes	0.009	UJ	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.44	U	No	0.0109	UJ	No	0.022	J	Yes	0.008	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	66	J	Yes	0.018	J	Yes	0.064	J	Yes	0.02		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	5.4		Yes	0.0069	UJ	No	0.026	J	Yes	0.005	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	23		Yes	0.0115	J	Yes	0.047	J	Yes	0.014		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	18		Yes	0.0068	UJ	No	0.11	J	Yes	0.008		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	32		Yes	0.0157	J	Yes	0.048	J	Yes	0.01		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	7.8		Yes	0.013	J	Yes	0.051	J	Yes	0.005	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	19		Yes	0.0069	UJ	No	0.047	J	Yes	0.009		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	26		Yes	0.0067	UJ	No	0.049	J	Yes	0.01		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	94.7		Yes	0.0231	J	Yes	0.106	J	Yes	0.032		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	47.3		Yes	0.0141	UJ	No	0.05	J	Yes	0.01		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	52.9		Yes	0.0158	J	Yes	0.066	J	Yes	0.02		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	17.4		Yes	0.0168	UJ	No	0.058	J	Yes	0.007	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	7.98		Yes	0.0145	UJ	No	0.039	J	Yes	0.01	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.43	J	Yes	0.0104	UJ	No	0.037	J	Yes	0.009	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.44	U	No	0.0109	UJ	No	0.035	J	Yes	0.009	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.4	U	No	0.0101	UJ	No	0.035	J	Yes	0.01	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.64	J	Yes	0.0187	J	Yes	0.031	J	Yes	0.01	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.42	U	No	0.0104	UJ	No	0.041	J	Yes	0.009	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	53	J	Yes	0.0151	J	Yes	0.075	J	Yes	0.02		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	30		Yes	0.00648	UJ	No	0.045	J	Yes	0.008		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	30		Yes	0.0111	J	Yes	0.053	J	Yes	0.014		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	12	J	Yes	0.0117	J	Yes	0.049	J	Yes	0.006	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	4.8		Yes	0.0064	UJ	No	0.04	J	Yes	0.005	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	Barium mg/kg			Beryllium mg/kg			Cadmium mg/kg			Calcium mg/kg			Chromium mg/kg			Cobalt mg/kg			Copper mg/kg			Iron mg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.0418	J	Yes	0.0046	U	No	0.0009	J	Yes	83.8		Yes	0.378		Yes	0.0038	J	Yes	0.282		Yes	5.8	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	0.472	J	Yes	0.0025	U	No	0.0074	J	Yes	11900		Yes	1.38		Yes	0.019	J	Yes	0.678		Yes	44.6	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	0.553	J	Yes	0.0025	J	Yes	0.0089	J	Yes	14000		Yes	3.05		Yes	0.053	J	Yes	0.445		Yes	34.1	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	0.408	J	Yes	0.0027	U	No	0.023	J	Yes	8710		Yes	13		Yes	0.17	J	Yes	0.745		Yes	85.5	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	0.411	J	Yes	0.003	U	No	0.02	J	Yes	11000		Yes	0.825		Yes	0.016	J	Yes	0.39		Yes	23.9	
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	0.896		Yes	0.006	U	No	0.009		Yes	19900		Yes	0.843		Yes	0.0142	J	Yes	0.648		Yes	23.7	J
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.0551	J	Yes	0.0045	U	No	0.002	J	Yes	467		Yes	0.204		Yes	0.0037	J	Yes	0.289		Yes	4.23	J
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	0.504	J	Yes	0.0027	U	No	0.0057	J	Yes	10800		Yes	0.545		Yes	0.0093	J	Yes	0.481		Yes	14.6	J
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	2.08		Yes	0.001	J	Yes	0.0228		Yes	5290		Yes	15.4		Yes	0.207	J	Yes	0.916		Yes	119	J
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	3.77		Yes	0.0061	U	No	0.0061		Yes	10300		Yes	1		Yes	0.024	J	Yes	0.655		Yes	27.5	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	0.52		Yes	0.0061	U	No	0.0059	J	Yes	21500		Yes	1.27		Yes	0.0257	J	Yes	0.461	J	Yes	23.1	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	0.672		Yes	0.0011	J	Yes	0.0043	J	Yes	19100		Yes	1.23		Yes	0.0175	J	Yes	0.36	J	Yes	20.5	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	0.727		Yes	0.006	U	No	0.0048	J	Yes	20400		Yes	1.06		Yes	0.0183	J	Yes	0.42	J	Yes	23.1	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.0535		Yes	0.0047	U	No	0.0047	U	No	509		Yes	0.175		Yes	0.0047	UJ	No	0.292	J	Yes	3.29	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.0356	J	Yes	0.0044	U	No	0.0005	J	Yes	315		Yes	0.29		Yes	0.0048	J	Yes	0.251	J	Yes	3.07	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.0471		Yes	0.0046	U	No	0.0028	J	Yes	348		Yes	0.327		Yes	0.0046	J	Yes	0.286	J	Yes	3.34	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	0.34		Yes	0.0028	U	No	0.0045	J	Yes	13400		Yes	0.847		Yes	0.017	J	Yes	0.396	J	Yes	15.5	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	0.41	J	Yes	0.0016	J	Yes	0.003	J	Yes	11400		Yes	0.844		Yes	0.012	J	Yes	0.315	J	Yes	13.3	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	0.44		Yes	0.0027	U	No	0.004	J	Yes	11900		Yes	0.751		Yes	0.013	J	Yes	0.363	J	Yes	14.8	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	3.72		Yes	0.0049	J	Yes	0.0487		Yes	5660		Yes	27.7		Yes	0.206	J	Yes	16.2		Yes	299	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	2.06		Yes	0.006	U	No	0.0242		Yes	27000		Yes	3.08		Yes	0.0336	J	Yes	7.83		Yes	51.6	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	3.24		Yes	0.002	J	Yes	0.0424		Yes	6510		Yes	20.4		Yes	0.285	J	Yes	24.3		Yes	167	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	2.94		Yes	0.0014	J	Yes	0.0443		Yes	6370		Yes	4.9		Yes	0.0821	J	Yes	21.9		Yes	92.6	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	2.88		Yes	0.0021	J	Yes	0.045		Yes	6490		Yes	17.8		Yes	0.221	J	Yes	19.8		Yes	184	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	2.52		Yes	0.0014	J	Yes	0.0397		Yes	6560		Yes	6.84		Yes	0.0941	J	Yes	26.9		Yes	81.4	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	3.59		Yes	0.0013	J	Yes	0.0329		Yes	6360		Yes	9.93		Yes	0.113	J	Yes	23.1		Yes	136	
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	3.03		Yes	0.0025	J	Yes	0.0491		Yes	6700		Yes	15.5		Yes	0.172	J	Yes	18.5		Yes	173	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.0407	J	Yes	0.0043	U	No	0.0022	J	Yes	251		Yes	0.934		Yes	0.0168	J	Yes	0.509		Yes	9.05	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.0272	J	Yes	0.0044	U	No	0.0014	J	Yes	151		Yes	0.177		Yes	0.0071	J	Yes	0.453		Yes	4.97	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.0351	J	Yes	0.0042	U	No	0.0014	J	Yes	212		Yes	0.068	J	Yes	0.0061	J	Yes	0.367		Yes	5.01	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.0304	J	Yes	0.0043	U	No	0.0018	J	Yes	196		Yes	0.2		Yes	0.0077	J	Yes	0.448		Yes	5.71	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.0439	J	Yes	0.0048	U	No	0.0022	J	Yes	350		Yes	0.15		Yes	0.0059	J	Yes	0.445		Yes	6.25	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.0305	J	Yes	0.0048	U	No	0.0022	J	Yes	292		Yes	0.105		Yes	0.0061	J	Yes	0.398		Yes	4.71	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.0256	J	Yes	0.0045	U	No	0.0017	J	Yes	218		Yes	0.063	J	Yes	0.0072	J	Yes	0.428		Yes	5.33	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.0393	J	Yes	0.0043	U	No	0.0019	J	Yes	255		Yes	0.133		Yes	0.0076	J	Yes	0.443		Yes	5.25	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	2.34	J	Yes	0.0039	J	Yes	0.031	J	Yes	3630		Yes	17.7		Yes	0.135	J	Yes	10.3		Yes	190	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	1.26	J	Yes	0.0027	U	No	0.015	J	Yes	16000		Yes	1.94		Yes	0.023	J	Yes	4.94		Yes	33.3	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	2	J	Yes	0.002	J	Yes	0.027	J	Yes	4080		Yes	13	J	Yes	0.18	J	Yes	15.1		Yes	104	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	1.75	J	Yes	0.0017	J	Yes	0.027	J	Yes	3840		Yes	2.98		Yes	0.052	J	Yes	13.1		Yes	57.1	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	1.76	J	Yes	0.0022	J	Yes	0.028	J	Yes	4100		Yes	10.8		Yes	0.14	J	Yes	12.1		Yes	114	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	1.52	J	Yes	0.0018	J	Yes	0.025	J	Yes	4040		Yes	4.13		Yes	0.059	J	Yes	16.2		Yes	50.6	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	2.09	J	Yes	0.0017	J	Yes	0.02	J	Yes	3780		Yes	5.8	J	Yes	0.069	J	Yes	13.6		Yes	81.1	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	1.78	J	Yes	0.0024	J	Yes	0.029	J	Yes	4000		Yes	9.09		Yes	0.1	J	Yes	11		Yes	103	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	2		Yes	0.0034	J	Yes	0.0264		Yes	15600		Yes	68.3		Yes	0.4	J	Yes	2.47		Yes	483	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	1.47		Yes	0.0017	J	Yes	0.0227		Yes	13400		Yes	4.28		Yes	0.0694	J	Yes	1.22		Yes	103	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	1.62		Yes	0.0034	J	Yes	0.0204		Yes	15800		Yes	19.5		Yes	0.259	J	Yes	1.73		Yes	227	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	1.16		Yes	0.0068	U	No	0.0186		Yes	14500		Yes	2.63		Yes	0.0527	J	Yes	0.948		Yes	64.7	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	1.03		Yes	0.0058	U	No	0.014		Yes	15000		Yes	3.52		Yes	0.0664	J	Yes	1.04		Yes	48.5	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.112	J	Yes	0.0042	U	No	0.0006	J	Yes	225		Yes	0.233		Yes	0.0059	J	Yes	0.293		Yes	5.68	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.173		Yes	0.0043	U	No	0.0011	J	Yes	514		Yes	0.134		Yes	0.0074	J	Yes	0.41		Yes	7.8	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.144	J	Yes	0.0039	U	No	0.0005	J	Yes	368		Yes	0.126		Yes	0.0073	J	Yes	0.33		Yes	7.02	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.192		Yes	0.0046	U	No	0.0009	J	Yes	311		Yes	0.318		Yes	0.0064	J	Yes	0.374		Yes	7.69	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.105	J	Yes	0.0043	U	No	0.0008	J	Yes	280		Yes	0.265		Yes	0.0059	J	Yes	0.305		Yes	4.58	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	1.16	J	Yes	0.0028	J	Yes	0.01	J	Yes	8740		Yes	37.9		Yes	0.22	J	Yes	1.5		Yes	270	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	1		Yes	0.0019	J	Yes	0.015	J	Yes	8770		Yes	2.79		Yes	0.047	J	Yes	0.929		Yes	68.8	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	0.981	J	Yes	0.0028	J	Yes	0.01	J	Yes	9120		Yes	11.1		Yes	0.15	J	Yes	1.12		Yes	132	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	0.847		Yes	0.003	U	No	0.01	J	Yes	9920		Yes	1.88		Yes	0.038	J	Yes	0.763		Yes	46.3	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.647	J	Yes	0.0026	U	No	0.009	J	Yes	8900		Yes	2.17		Yes	0.041	J	Yes	0.736		Yes	30.3	J

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	Lead			Magnesium			Manganese			Mercury			Methyl mercury			Nickel			Potassium			Selenium	
					mg/kg			mg/kg			mg/kg			µg/kg			µg/kg			mg/kg			mg/kg			mg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.0046	UJ	No	238		Yes	0.148	J	Yes	211		Yes	203		Yes	0.173	J	Yes	4070		Yes	0.129	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	0.11	J	Yes	360		Yes	4.16	J	Yes	167	J	Yes	162		Yes	0.666	J	Yes	2930		Yes	0.277	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	0.264	J	Yes	397		Yes	2.71	J	Yes	555		Yes	559		Yes	1.76	J	Yes	2850		Yes	0.332	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	0.25	J	Yes	326		Yes	3.39	J	Yes	418		Yes	413		Yes	7.72	J	Yes	3090		Yes	0.249	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	0.32	J	Yes	354		Yes	2.69	J	Yes	146	J	Yes	140		Yes	0.444	J	Yes	3050		Yes	0.238	
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	0.096		Yes	509		Yes	10.2	J	Yes	251		Yes	216		Yes	0.397	J	Yes	2330		Yes	0.448	
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.0045	U	No	303		Yes	0.367	J	Yes	494		Yes	431		Yes	0.112	J	Yes	4180		Yes	0.381	
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	0.052		Yes	413		Yes	5.62	J	Yes	364		Yes	316		Yes	0.264	J	Yes	3190		Yes	0.417	
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.476		Yes	689		Yes	14.9	J	Yes	125	J	Yes	110		Yes	8.6	J	Yes	3270		Yes	0.697	
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	0.209		Yes	466		Yes	4.26	J	Yes	71.9	J	Yes	61.7		Yes	0.623	J	Yes	3660		Yes	0.653	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	0.0717		Yes	597		Yes	3.86	J	Yes	156		Yes	116		Yes	0.552	J	Yes	3000		Yes	0.654	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	0.0771		Yes	546		Yes	3.31	J	Yes	158		Yes	112		Yes	0.492	J	Yes	3020		Yes	0.593	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	0.0901		Yes	564		Yes	6.15	J	Yes	168		Yes	132		Yes	0.479	J	Yes	2870		Yes	0.79	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.0047	U	No	321		Yes	0.154	J	Yes	266		Yes	175		Yes	0.074	J	Yes	4080		Yes	0.518	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.0044	U	No	303		Yes	0.144	J	Yes	268		Yes	190		Yes	0.168	J	Yes	3970		Yes	0.352	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.0046	U	No	325		Yes	0.207	J	Yes	329		Yes	202		Yes	0.182	J	Yes	4090		Yes	0.541	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	0.045		Yes	490		Yes	2.43	J	Yes	198		Yes	139		Yes	0.37	J	Yes	3000		Yes	0.602	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	0.046		Yes	446		Yes	2.01	J	Yes	203		Yes	140		Yes	0.359	J	Yes	3410		Yes	0.494	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	0.053		Yes	463		Yes	3.64	J	Yes	236		Yes	162		Yes	0.354	J	Yes	3380		Yes	0.685	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	1.94		Yes	697		Yes	22.7	J	Yes	175	J	Yes	144		Yes	15.4	J	Yes	2920		Yes	1.37	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	0.434		Yes	614		Yes	10.1	J	Yes	155	J	Yes	141		Yes	1.8	J	Yes	2890		Yes	1.34	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	0.944		Yes	689		Yes	15.4	J	Yes	132	J	Yes	121		Yes	11.2	J	Yes	2760		Yes	1.54	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	0.84		Yes	699		Yes	17.7	J	Yes	197		Yes	158		Yes	2.96	J	Yes	2810		Yes	1.49	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	0.898		Yes	711		Yes	15.5	J	Yes	220		Yes	178		Yes	9.51	J	Yes	2890		Yes	2.02	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	0.428		Yes	692		Yes	10.9	J	Yes	294		Yes	245		Yes	3.74	J	Yes	2680		Yes	1.36	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	0.753		Yes	687		Yes	17.7	J	Yes	103	J	Yes	78.5		Yes	6.37	J	Yes	2880		Yes	1.26	
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	0.92		Yes	732		Yes	21.7	J	Yes	174	J	Yes	151		Yes	9.86	J	Yes	2790		Yes	2.34	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.0149		Yes	315		Yes	0.39	J	Yes	316		Yes	294		Yes	0.597	J	Yes	3850		Yes	1.1	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.0065		Yes	321		Yes	0.192	J	Yes	275		Yes	248		Yes	0.101	J	Yes	4080		Yes	0.709	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.0099		Yes	305		Yes	0.211	J	Yes	247		Yes	226		Yes	0.043	J	Yes	3990		Yes	0.897	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.0092		Yes	322		Yes	0.222	J	Yes	344		Yes	339		Yes	0.119	J	Yes	4050		Yes	0.88	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.0087		Yes	321		Yes	0.287	J	Yes	424		Yes	413		Yes	0.095	J	Yes	3980		Yes	1.22	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.0067		Yes	307		Yes	0.198	J	Yes	530		Yes	563		Yes	0.083	J	Yes	3900		Yes	0.478	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.0082		Yes	326		Yes	0.234	J	Yes	189		Yes	170		Yes	0.055	J	Yes	4080		Yes	0.972	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.0091		Yes	313		Yes	0.24	J	Yes	362		Yes	318		Yes	0.094	J	Yes	3970		Yes	0.551	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	1.22		Yes	554		Yes	14.3	J	Yes	228	J	Yes	200		Yes	9.85	J	Yes	3270		Yes	1.27	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	0.27		Yes	499		Yes	6.22	J	Yes	202	J	Yes	183		Yes	1.13	J	Yes	3360		Yes	1.09	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	0.58		Yes	541		Yes	9.54	J	Yes	176	J	Yes	162		Yes	6.9	J	Yes	3230		Yes	1.29	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	0.5		Yes	545		Yes	10.6	J	Yes	257		Yes	232		Yes	1.8	J	Yes	3320		Yes	1.24	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	0.55		Yes	557		Yes	9.48	J	Yes	300		Yes	271		Yes	5.8	J	Yes	3320		Yes	1.7	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	0.26		Yes	537		Yes	6.6	J	Yes	390		Yes	373		Yes	2.3	J	Yes	3200		Yes	1.01	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	0.44		Yes	535		Yes	10.4	J	Yes	139	J	Yes	120		Yes	3.7	J	Yes	3380		Yes	1.14	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	0.54		Yes	557		Yes	12.8	J	Yes	252	J	Yes	221		Yes	5.8	J	Yes	3280		Yes	1.59	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	2.04		Yes	519		Yes	15.7	J	Yes	50.2	J	Yes	36.4	J	Yes	39.2	J	Yes	3020		Yes	0.545	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	0.927		Yes	477		Yes	10.2	J	Yes	84.6	J	Yes	73.6		Yes	2.9	J	Yes	3410		Yes	0.519	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	1.27		Yes	529		Yes	13.7	J	Yes	51.7	J	Yes	39.3	J	Yes	11.2	J	Yes	3370		Yes	0.648	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	0.393		Yes	424		Yes	9.88	J	Yes	169	J	Yes	136		Yes	1.69	J	Yes	2200		Yes	0.513	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	0.173		Yes	465		Yes	15.1	J	Yes	44.2	J	Yes	36.3	J	Yes	2.01	J	Yes	2730		Yes	0.603	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.0089		Yes	310		Yes	0.267	J	Yes	79.3	J	Yes	69.9		Yes	0.133	J	Yes	4270		Yes	0.463	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.0158		Yes	320		Yes	0.473	J	Yes	164	J	Yes	142		Yes	0.094	J	Yes	4410		Yes	0.7	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.0114		Yes	314		Yes	0.534	J	Yes	77	J	Yes	75.4		Yes	0.096	J	Yes	4190		Yes	0.641	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.0108		Yes	286		Yes	0.385	J	Yes	355		Yes	321		Yes	0.204	J	Yes	3640		Yes	0.498	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.0043	U	No	306		Yes	0.38	J	Yes	84.6	J	Yes	73.7		Yes	0.17	J	Yes	4260		Yes	0.511	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	1.1		Yes	430		Yes	8.82	J	Yes	63.2	J	Yes	51.3	J	Yes	21.8	J	Yes	3580		Yes	0.508	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	0.6		Yes	420		Yes	6.71	J	Yes	113	J	Yes	98.2		Yes	1.9	J	Yes	3770		Yes	0.584	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	0.725		Yes	436		Yes	8	J	Yes	62.7	J	Yes	54.9	J	Yes	6.4	J	Yes	3730		Yes	0.645	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	0.27		Yes	379		Yes	6.81	J	Yes	229	J	Yes	196		Yes	1.21	J	Yes	2700		Yes	0.508	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.1		Yes	399		Yes	9.01	J	Yes	60.9	J	Yes	51.8	J	Yes	1.25	J	Yes	3360		Yes	0.565	

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					Silver			Sodium			Thallium			Titanium			Vanadium			Zinc		
					mg/kg			mg/kg			mg/kg			mg/kg			mg/kg			mg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.0046	U	No	596		Yes	0.0046	U	No	0.046	U	No	0.018	J	Yes	6.9		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	0.002	J	Yes	1430		Yes	0.0025	U	No	0.16		Yes	0.17	J	Yes	14.3		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	0.0027	J	Yes	1320		Yes	0.0039		Yes	0.28		Yes	0.1		Yes	19.5		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	0.0027	U	No	1160		Yes	0.0027	U	No	0.72		Yes	0.18		Yes	18.5		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	0.003	U	No	1180		Yes	0.003	U	No	0.03	U	No	0.067	J	Yes	19.9		Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	0.006	U	No	1650		Yes	0.006	UJ	No	0.06	UJ	No	0.042	J	Yes	67.8		Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.0045	U	No	647		Yes	0.0045	UJ	No	0.045	U	No	0.091	U	No	9.56		Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	0.0027	U	No	1180		Yes	0.003	UJ	No	0.03	UJ	No	0.044	J	Yes	40.7		Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.0025	J	Yes	1590		Yes	0.0056	UJ	No	1.1	J	Yes	0.295		Yes	33.6		Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	0.0061	U	No	876		Yes	0.0061	UJ	No	0.459	J	Yes	0.119	J	Yes	53.6		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	0.0061	U	No	1480		Yes	0.0061	U	No	0.105	J	Yes	0.046	J	Yes	20.8		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	0.0059	U	No	1530		Yes	0.0059	U	No	0.058	J	Yes	0.02	J	Yes	19.6		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	0.006	U	No	1490		Yes	0.006	U	No	0.051	J	Yes	0.03	J	Yes	20.2		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.0047	U	No	629		Yes	0.0047	U	No	0.023	J	Yes	0.093	U	No	8.46		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.0044	U	No	593		Yes	0.0044	U	No	0.043	UJ	No	0.087	U	No	8		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.0046	U	No	613		Yes	0.0046	U	No	0.046	UJ	No	0.093	U	No	7.32		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	0.0028	U	No	1150		Yes	0.0028	U	No	0.073	J	Yes	0.046	J	Yes	16		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	0.0026	U	No	1140		Yes	0.0026	U	No	0.043	J	Yes	0.03	J	Yes	14.8		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	0.0027	U	No	1120		Yes	0.003	U	No	0.039	J	Yes	0.037	J	Yes	14.8		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	0.0982		Yes	1710		Yes	0.006	UJ	No	4.97	J	Yes	0.707		Yes	37.3		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	0.0471		Yes	1650		Yes	0.006	UJ	No	0.31	J	Yes	0.147		Yes	27.6		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	0.121		Yes	1830		Yes	0.006	UJ	No	1.75		Yes	0.429		Yes	36.4		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	0.139		Yes	1910		Yes	0.006	UJ	No	1.57		Yes	0.309		Yes	35.7		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	0.103		Yes	1930		Yes	0.0065	UJ	No	2.53		Yes	0.458		Yes	32.8		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	0.172		Yes	2100		Yes	0.0067	UJ	No	0.608	J	Yes	0.217		Yes	34.7		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	0.0955		Yes	1920		Yes	0.0063	UJ	No	1.36		Yes	0.392		Yes	35.8		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	0.106		Yes	1960		Yes	0.006	UJ	No	2.13		Yes	0.435		Yes	38.1		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.0043	U	No	697		Yes	0.0043	UJ	No	0.047	J	Yes	0.086	U	No	12.4		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.0044	U	No	686		Yes	0.0044	UJ	No	0.044	U	No	0.089	U	No	11.8		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.0042	U	No	700		Yes	0.0042	UJ	No	0.042	U	No	0.083	U	No	11.8		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.0043	U	No	707		Yes	0.0043	UJ	No	0.043	U	No	0.087	U	No	11.9		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.0048	U	No	670		Yes	0.0048	UJ	No	0.048	U	No	0.095	U	No	10.9		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.0048	U	No	813		Yes	0.0048	UJ	No	0.048	U	No	0.095	U	No	13.3		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.0045	U	No	729		Yes	0.0045	UJ	No	0.045	U	No	0.09	U	No	11.5		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.0043	U	No	795		Yes	0.0043	UJ	No	0.043	U	No	0.086	U	No	11.9		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	0.062		Yes	1330		Yes	0.003	UJ	No	3.1	J	Yes	0.46		Yes	28		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	0.029		Yes	1270		Yes	0.003	UJ	No	0.2	J	Yes	0.11		Yes	21.4		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	0.075		Yes	1000		Yes	0.003	UJ	No	1.1		Yes	0.28		Yes	26.9		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	0.083		Yes	1420		Yes	0.003	UJ	No	0.94		Yes	0.2		Yes	26		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	0.063		Yes	1400		Yes	0.0029	UJ	No	1.5		Yes	0.3		Yes	24.1		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	0.1		Yes	1600		Yes	0.003	UJ	No	0.37	J	Yes	0.15		Yes	26.1		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	0.056		Yes	1420		Yes	0.0028	UJ	No	0.8		Yes	0.25		Yes	25.6		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	0.063		Yes	1470		Yes	0.003	UJ	No	1.3		Yes	0.27		Yes	27.2		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	0.0202		Yes	1270		Yes	0.0055	UJ	No	5.94	J	Yes	0.942		Yes	25.2		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	0.0077		Yes	1270		Yes	0.0056	UJ	No	2.08	J	Yes	0.282		Yes	24.1		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	0.0174		Yes	1190		Yes	0.005	UJ	No	4.27	J	Yes	0.635		Yes	22.5		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	0.0033	J	Yes	1140		Yes	0.0068	UJ	No	0.965	J	Yes	0.197		Yes	19.6		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	0.003	J	Yes	1080		Yes	0.0058	UJ	No	0.509	J	Yes	0.192		Yes	22.1		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.0042	U	No	612		Yes	0.0042	UJ	No	0.042	UJ	No	0.083	U	No	8.09		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.0043	U	No	638		Yes	0.0043	UJ	No	0.043	U	No	0.087	U	No	14.7		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.0039	U	No	613		Yes	0.0039	UJ	No	0.039	U	No	0.078	U	No	8.01		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.0046	U	No	597		Yes	0.0046	UJ	No	0.046	UJ	No	0.093	U	No	11.3		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.0043	U	No	428		Yes	0.0043	UJ	No	0.043	U	No	0.085	U	No	8.92		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	0.012		Yes	977		Yes	0.0025	UJ	No	3.3	J	Yes	0.54		Yes	17.6		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	0.0057		Yes	1040		Yes	0.0026	UJ	No	1.3	J	Yes	0.2		Yes	20.7		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	0.011		Yes	940		Yes	0.002	UJ	No	2.4	J	Yes	0.38		Yes	16.2		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	0.003	J	Yes	965		Yes	0.003	UJ	No	0.66	J	Yes	0.15		Yes	16.9		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.0026	J	Yes	810		Yes	0.0026	UJ	No	0.31	J	Yes	0.13		Yes	16.6		Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					2,4'-DDD			2,4'-DDE			2,4'-DDT			4,4'-DDD			4,4'-DDE		
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Field Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	1.07	J	Yes	0.173	J	Yes	0.85	J	Yes	68.9		Yes	149		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	1.29	J	Yes	0.516	J	Yes	0.64	J	Yes	54.3		Yes	133		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	1.25	J	Yes	0.13	J	Yes	1.07	J	Yes	70.1		Yes	149		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	1.38	J	Yes	0.284	J	Yes	0.73	J	Yes	61.5		Yes	122		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	1.85	J	Yes	0.234	J	Yes	0.98	J	Yes	77.7		Yes	164		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	1.19	J	Yes	0.141	J	Yes	1.05	J	Yes	44.8		Yes	87.5		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.827	J	Yes	0.092	J	Yes	0.74	J	Yes	43.4		Yes	105		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.955	J	Yes	0.086	J	Yes	1.04	J	Yes	66.6		Yes	200		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	1.98	J	Yes	0.344	J	Yes	1.1	J	Yes	80.5		Yes	230		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	1.01	J	Yes	0.075	J	Yes	0.43	J	Yes	16.6		Yes	58.8		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.97	U	No	0.158	J	Yes	0.87	J	Yes	67.5		Yes	153		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	1.58	J	Yes	0.584	J	Yes	0.1	U	No	52.8		Yes	112		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	1.62	J	Yes	0.176	J	Yes	1.15	J	Yes	92.2		Yes	194		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	1.84	J	Yes	0.325	J	Yes	1.09	J	Yes	70.9		Yes	143		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	1.9	J	Yes	0.231	J	Yes	1.03	J	Yes	77.2		Yes	164		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	1.74	J	Yes	0.146	J	Yes	1.33	J	Yes	64.8		Yes	120		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	1.26	J	Yes	0.105	J	Yes	1.02	J	Yes	61.6		Yes	146		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.996	J	Yes	0.086	J	Yes	1.2	J	Yes	71.5		Yes	219		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	2.08	J	Yes	0.411	J	Yes	1.12	J	Yes	81.9		Yes	249		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	1.19	J	Yes	0.094	J	Yes	0.63	J	Yes	20.6		Yes	66.5		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.791	J	Yes	0.14	UJ	No	0.64	J	Yes	46.8	J	Yes	111	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	4.3	J	Yes	1.3	UJ	No	1.8	U	No	168	J	Yes	282	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.242	J	Yes	0.057	UJ	No	0.523	J	Yes	25.1	J	Yes	81.5	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.053	J	Yes	0.04	UJ	No	0.16	U	No	6.9	J	Yes	50.9	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	1.2	J	Yes	0.7	J	Yes	1.8		Yes	38.7	J	Yes	100	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	1.5	J	Yes	0.85	UJ	No	2	U	No	77.4	J	Yes	209	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.8	J	Yes	0.166	J	Yes	0.86	J	Yes	68.3		Yes	151		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	1.43	J	Yes	0.549	J	Yes	0.36	J	Yes	53.6		Yes	123		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	1.43	J	Yes	0.15	J	Yes	1.11	J	Yes	80.6		Yes	170		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	1.59	J	Yes	0.302	J	Yes	0.89	J	Yes	65.7		Yes	131		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	1.88	J	Yes	0.232	J	Yes	1	J	Yes	77.4		Yes	164		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	1.41	J	Yes	0.143	J	Yes	1.16	J	Yes	52.8		Yes	100		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	1.02	J	Yes	0.098	J	Yes	0.87	J	Yes	51.6		Yes	123		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.974	J	Yes	0.086	J	Yes	1.11	J	Yes	68.8		Yes	210		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	2.02	J	Yes	0.372	J	Yes	1.11	J	Yes	81.1		Yes	240		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	1.1	J	Yes	0.084	J	Yes	0.53	J	Yes	18.6		Yes	62.6		Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	3.3		Yes	0.731	J	Yes	0.65	J	Yes	14.4		Yes	22.4		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.448	J	Yes	0.41	J	Yes	0.13	U	No	5.2	J	Yes	12.3	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.185	J	Yes	0.091	U	No	0.088	U	No	4.4	J	Yes	10.5	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.102	J	Yes	0.139	J	Yes	0.04	U	No	2.97	J	Yes	10.3	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.25	UJ	No	0.205	J	Yes	0.094	U	No	4.38	J	Yes	11.4	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.06	UJ	No	0.1	U	No	0.03	U	No	2.11	J	Yes	16.4	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.194	J	Yes	0.103	J	Yes	0.23	J	Yes	3.58	J	Yes	7.49	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	1.55	J	Yes	0.74	J	Yes	0.058	U	No	15.7	J	Yes	47.2	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	0.29	J	Yes	0.32	J	Yes	0.14	U	No	7.1	J	Yes	18.7	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	1.3	J	Yes	1.3		Yes	0.074	U	No	20.4	J	Yes	34.4	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	1.1	J	Yes	0.54	J	Yes	0.465	J	Yes	13.8	J	Yes	22.6	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	1.5	J	Yes	0.52	J	Yes	0.822	J	Yes	18.2	J	Yes	50.8	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	0.612	J	Yes	0.3	J	Yes	0.285	J	Yes	10.7	J	Yes	23.4	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	12.6	J	Yes	3.35	J	Yes	1.15		Yes	56.7	J	Yes	75.8		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	13.2	J	Yes	2.83	J	Yes	7.99		Yes	47.7	J	Yes	83.5		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	12.1	J	Yes	1.09	J	Yes	1.12		Yes	83.2	J	Yes	114		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	10.3	J	Yes	1.14	J	Yes	2.01		Yes	86.3	J	Yes	146		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	10.8	J	Yes	1.22	J	Yes	2.24		Yes	97.1	J	Yes	133		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	4.23	J	Yes	0.565	J	Yes	0.28	J	Yes	33.6	J	Yes	66		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	22.8	J	Yes	5.71	J	Yes	2.3		Yes	104	J	Yes	105		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	12.5	J	Yes	3.39	J	Yes	1.55		Yes	97.1	J	Yes	134		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	6.2	J	Yes	1.3	J	Yes	3.1		Yes	21.4	J	Yes	43.7		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	4.18	J	Yes	1.03	J	Yes	0.328	J	Yes	19.4	J	Yes	40.1		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	4.07	J	Yes	0.905	J	Yes	0.518	J	Yes	23.4	J	Yes	55.2		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	7.31	J	Yes	0.725	J	Yes	0.6	J	Yes	56.1	J	Yes	86.2		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	3.9	J	Yes	0.461	J	Yes	0.7	U	No	37.1	J	Yes	83.3		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	5.79	J	Yes	0.625	J	Yes	1.27		Yes	55.9	J	Yes	94		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	12.9	J	Yes	2.9	J	Yes	4.7		Yes	66	J	Yes	118		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	19.4	J	Yes	5.14	J	Yes	2.23		Yes	91.9	J	Yes	111		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	8.16	J	Yes	2.28	J	Yes	0.38	U	No	31.1	J	Yes	52.3		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	13.5	J	Yes	3.53	J	Yes	1.66		Yes	74.7	J	Yes	106		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	10.4	J	Yes	2.15	J	Yes	0.867	J	Yes	32.1	J	Yes	40.5		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	17.3	J	Yes	4.53	J	Yes	2.24		Yes	87.6	J	Yes	170		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	16.2	J	Yes	4.18	J	Yes	1.55		Yes	73.3	J	Yes	86		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	11	J	Yes	2.4	J	Yes	6.5		Yes	39.5	J	Yes	71.1		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	10.6	J	Yes	0.975	J	Yes	0.96	J	Yes	74.7	J	Yes	105		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	8.3	J	Yes	0.93	J	Yes	1.5		Yes	71	J	Yes	127		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	9.17	J	Yes	1.03	J	Yes	1.92		Yes	83.7	J	Yes	120		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	2.9	J	Yes	1.4		Yes	2.4		Yes	49.4	J	Yes	227	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	2.16	J	Yes	1.09		Yes	0.78	J	Yes	46.5	J	Yes	210	UJ	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	4	J	Yes	1.38		Yes	5.92		Yes	61.2	J	Yes	286	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	3.42	J	Yes	0.79	J	Yes	2.6		Yes	47	J	Yes	129	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.662	J	Yes	0.327	J	Yes	0.029	U	No	9.71	J	Yes	48.8	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	1	J	Yes	0.49	J	Yes	0.19	U	No	19.6	J	Yes	211	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	1.21	J	Yes	0.51	J	Yes	1.57		Yes	19.4	J	Yes	171	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					4,4'-DDT			Aldrin			alpha-BHC			alpha-Chlordane			beta-BHC			cis-Nonachlor			delta-BHC			Dieldrin	
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg	
Species	Tissue Type	Event	Reach	Field Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	10.4		Yes	0.017	U	No	0.064	U	No	77.4		Yes	0.238	J	Yes	47		Yes	0.107	J	Yes	53.8	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	10		Yes	0.046	J	Yes	0.11	U	No	84.9		Yes	0.16	U	No	43.5		Yes	0.16	U	No	53.2	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	13.2		Yes	0.036	J	Yes	0.081	U	No	86.6		Yes	0.24	J	Yes	46.9		Yes	0.12	U	No	67.8	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	9.4		Yes	0.064	J	Yes	0.061	U	No	81.3		Yes	0.196	J	Yes	41.8		Yes	0.088	U	No	74.7	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	11.4		Yes	0.0392	J	Yes	0.102	J	Yes	86		Yes	0.274	J	Yes	51.1		Yes	0.055	U	No	81	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	14.3		Yes	0.033	U	No	0.065	J	Yes	87.1		Yes	0.239	J	Yes	30.2		Yes	0.083	U	No	68.7	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	11.6		Yes	0.026	U	No	0.076	J	Yes	62.2		Yes	0.273	J	Yes	33.6		Yes	0.113	J	Yes	62.2	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	22.4		Yes	0.014	U	No	0.084	U	No	98.9		Yes	0.12	U	No	53		Yes	0.12	U	No	59.4	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	26.1		Yes	0.058	J	Yes	0.068	J	Yes	120	J	Yes	0.254	J	Yes	65.5		Yes	0.059	U	No	94.5	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	4.4		Yes	0.025	U	No	0.087	J	Yes	23.2		Yes	0.187	J	Yes	16.6		Yes	0.048	U	No	30.3	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	10.4		Yes	0.036	U	No	0.1	U	No	74.3		Yes	0.15	U	No	43.3		Yes	0.15	U	No	50.4	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	8		Yes	0.053	J	Yes	0.052	U	No	78.5		Yes	0.133	J	Yes	37.5		Yes	0.077	U	No	52.3	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	18		Yes	0.069	J	Yes	0.13	U	No	102		Yes	0.28	J	Yes	59.6		Yes	0.18	U	No	84.3	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	11.5		Yes	0.043	J	Yes	0.059	U	No	92.3		Yes	0.22	U	No	49.6		Yes	0.072	U	No	85.4	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	11.7		Yes	0.035	U	No	0.068	U	No	92.8		Yes	0.213	J	Yes	46.9		Yes	0.049	U	No	77	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	21.9		Yes	0.07	J	Yes	0.065	U	No	122		Yes	0.272	J	Yes	0.84	J	Yes	0.067	U	No	101	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	16.7		Yes	0.041	J	Yes	0.103	J	Yes	95.7		Yes	0.313	J	Yes	50.4		Yes	0.082	U	No	82.8	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	25.2		Yes	0.017	U	No	0.067	U	No	104		Yes	0.109	J	Yes	60		Yes	0.098	U	No	64.5	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	28.4		Yes	0.016	U	No	0.107	J	Yes	118		Yes	0.313	J	Yes	69.5		Yes	0.044	U	No	102	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	5.5		Yes	0.046	J	Yes	0.079	U	No	26.5		Yes	0.2	U	No	17.1		Yes	0.053	U	No	37	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	7.9		Yes	0.0131	J	Yes	0.053	U	No	58.2		Yes	0.077	U	No	28.3		Yes	0.069	U	No	35.6	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	39.5		Yes	0.231	J	Yes	0.32	U	No	187		Yes	0.45	U	No	98		Yes	0.42	U	No	127	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	12.7		Yes	0.026	U	No	0.067	U	No	29.3		Yes	0.09	U	No	25.9		Yes	0.082	U	No	11.7	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	3.8		Yes	0.021	U	No	0.063	U	No	7.7		Yes	0.084	U	No	9.8		Yes	0.077	U	No	3.1	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	14.5		Yes	0.291	J	Yes	0.35	J	Yes	66.7		Yes	0.45	J	Yes	34.1		Yes	0.31	J	Yes	36.7	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	20.7	J	Yes	0.026	U	No	0.26	U	No	99.8	J	Yes	0.36	U	No	53.7	J	Yes	0.34	U	No	68.9	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	10.4		Yes	0.013	U	No	0.04	U	No	76		Yes	0.16	J	Yes	45.3		Yes	0.092	J	Yes	52.2	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	9		Yes	0.049	J	Yes	0.041	U	No	81.8		Yes	0.11	J	Yes	40.6		Yes	0.06	U	No	52.8	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	15.5		Yes	0.052	J	Yes	0.052	U	No	93.9		Yes	0.26	J	Yes	52.9		Yes	0.074	U	No	75.6	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	10		Yes	0.055	J	Yes	0.03	U	No	86.2		Yes	0.16	J	Yes	45.3		Yes	0.04	U	No	79.5	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	11.6		Yes	0.028	J	Yes	0.068	J	Yes	89.4		Yes	0.243	J	Yes	49		Yes	0.026	U	No	79	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	17.3		Yes	0.038	J	Yes	0.052	J	Yes	101		Yes	0.252	J	Yes	18	J	Yes	0.038	U	No	81.7	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	13.9		Yes	0.026	J	Yes	0.088	J	Yes	77.3		Yes	0.291	J	Yes	41.2		Yes	0.081	J	Yes	71.5	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	23.7		Yes	0.0077	U	No	0.038	U	No	101		Yes	0.082	J	Yes	56.2		Yes	0.055	U	No	61.7	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	27		Yes	0.037	J	Yes	0.084	J	Yes	120	J	Yes	0.278	J	Yes	67.2		Yes	0.026	U	No	97.6	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	4.9		Yes	0.029	J	Yes	0.064	J	Yes	24.8		Yes	0.14	J	Yes	16.8		Yes	0.025	U	No	33.6	
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	3.6		Yes	0.0526	U	No	0.046	U	No	43.2		Yes	0.066	U	No	11.3		Yes	0.057	U	No	18.9	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.76	J	Yes	0.047	J	Yes	0.041	U	No	12.8		Yes	0.051	U	No	3	J	Yes	0.049	U	No	4.2	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	1.51		Yes	0.021	U	No	0.046	U	No	7.59		Yes	0.057	U	No	2.23	J	Yes	0.055	U	No	2.42	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.595	J	Yes	0.0077	U	No	0.05	U	No	6.04		Yes	0.061	U	No	2.07	J	Yes	0.059	U	No	2.39	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	1.24		Yes	0.017	U	No	0.048	U	No	9.14		Yes	0.059	U	No	2.79	J	Yes	0.057	U	No	2.96	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.45	J	Yes	0.015	U	No	0.074	U	No	4.84		Yes	0.091	U	No	2.13	J	Yes	0.088	U	No	1.23	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	1.44		Yes	0.017	U	No	0.066	U	No	6.8	U	No	0.081	U	No	2.34	J	Yes	0.078	U	No	2.09	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	1.06		Yes	0.104	J	Yes	0.056	U	No	30.1		Yes	0.069	U	No	12.2	J	Yes	0.066	U	No	8.8	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	0.596	J	Yes	0.0079	U	No	0.045	U	No	13.1		Yes	0.056	U	No	4.56	J	Yes	0.053	U	No	2.54	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	1.7		Yes	0.036	J	Yes	0.054	U	No	32.6		Yes	0.066	U	No	7.1	J	Yes	0.064	U	No	8.5	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	2.4		Yes	0.09	J	Yes	0.048	U	No	41.5		Yes	0.101	J	Yes	9.4	J	Yes	0.057	U	No	15.6	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	4.2		Yes	0.114	J	Yes	0.094	U	No	48.5		Yes	0.12	U	No	16	J	Yes	0.11	U	No	25.8	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	2.77		Yes	0.027	U	No	0.067	U	No	34.6		Yes	0.082	U	No	9.92	J	Yes	0.079	U	No	7.36	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	1.87		Yes	0.156	U	No	0.039	J	Yes	83.6		Yes	0.089	J	Yes	23.1		Yes	0.019	U	No	23.7	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	2.17		Yes	0.131	U	No	0.048	J	Yes	81.3		Yes	0.141	J	Yes	21.7		Yes	0.028	U	No	24.4	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	1.59		Yes	0.256	J	Yes	0.062	J	Yes	119		Yes	0.169	J	Yes	38.9		Yes	0.031	U	No	36.6	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	2.66		Yes	0.087	U	No	0.077	J	Yes	106		Yes	0.205	J	Yes	36.6		Yes	0.034	U	No	32.6	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	2.33		Yes	0.0703	U	No	0.057	J	Yes	124		Yes	0.177	J	Yes	48		Yes	0.026	U	No	40	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	0.37	J	Yes	0.124	U	No	0.023	U	No	47.6		Yes	0.048	J	Yes	13.6		Yes	0.031	J	Yes	10.6	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	4.21		Yes	0.301	J	Yes	0.076	J	Yes	151		Yes	0.176	J	Yes	43.8		Yes	0.029	U	No	42.8	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	1.9		Yes	0.066	U	No	0.081	J	Yes	121		Yes	0.137	J	Yes	41		Yes	0.06	U	No	42.2	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	0.971	J	Yes	0.0643	U	No	0.035	J	Yes	36.6		Yes	0.072	J	Yes	9.9		Yes	0.022	U	No	11.3	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	0.381	J	Yes	0.045	U	No	0.069	U	No	33.9		Yes	0.085	U	No	9.57		Yes	0.082	U	No	8.61	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	0.559	J	Yes	0.0166	U	No	0.02	U	No	37.6		Yes	0.059	J	Yes	13		Yes	0.017	U	No	11.3	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	1.09		Yes	0.161	U	No	0.04	J	Yes	84.7		Yes	0.113	J	Yes	27.1		Yes	0.03	J	Yes	25.7	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	1		Yes	0.0516	U	No	0.038	J	Yes	59.6		Yes	0.104	J	Yes	18		Yes	0.021	U	No	15.6	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	1.26		Yes	0.0322	U	No	0.033	U	No	82.3		Yes	0.111	J	Yes	28.2		Yes	0.028	J	Yes	21.5	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	3.3		Yes	0.0412	U	No	0.051	U	No	103		Yes	0.161	J	Yes	34.8		Yes	0.031	U	No	30.2	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	2.57		Yes	0.113	U	No	0.056	J	Yes	118		Yes	0.166	J	Yes	39.8		Yes	0.028	U	No	31.7	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	0.565	J	Yes	0.0901	U	No	0.037	J	Yes	50.7		Yes	0.079	J	Yes	12.9		Yes	0.023	J	Yes	12.7	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	1.05		Yes	0.0548	U	No	0.043	J	Yes	103		Yes	0.153	J	Yes	36.7		Yes	0.034	U	No	29.2	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	1.19		Yes	0.191	U	No	0.14	U	No	68		Yes	0.21	J	Yes	14		Yes	0.16	U	No	28.5	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	1.09		Yes	0.084	U	No	0.096	U	No	128		Yes	0.15	J	Yes	38.7		Yes	0.11	U	No	31.9	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	2.69		Yes	0.156	J	Yes	0.052	J	Yes	107		Yes	0.12	J	Yes	30.3		Yes	0.011	U	No	30.4	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	1.8	J	Yes	0.0551	U	No	0.044	J	Yes	67.4		Yes	0.12	J	Yes	18		Yes	0.013	U	No	20.3	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	1.43		Yes	0.201	J	Yes	0.055	J	Yes	108		Yes	0.151	J	Yes	35.2		Yes	0.02	J	Yes	33.2	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	2.1		Yes	0.038	U	No	0.065	J	Yes	91.6		Yes	0.174	J	Yes	30.8		Yes	0.015	U	No	27.3	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	1.98		Yes	0.029	U	No	0.044	J	Yes	110		Yes	0.156	J	Yes	41.6		Yes	0.018	J	Yes	34	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	3.9		Yes	0.067	U	No	0.063	U	No	75.3		Yes	0.077	U	No	27.5	J	Yes	0.075	U	No	15	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	17.6		Yes	0.112	J	Yes	0.16	U	No	99.2		Yes	0.19	U	No	63.2	J	Yes	0.19	U	No	20.1	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	30.9		Yes	0.139	J	Yes	0.046	U	No	149		Yes	0.115	J	Yes	72.9	J	Yes	0.055	U	No	34.4	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	17		Yes	0.222	J	Yes	0.072	U	No	145		Yes	0.162	J	Yes	41.9	J	Yes	0.085	U	No	27.6	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.829	J	Yes	0.021	J	Yes	0.052	U	No	14		Yes	0.064	U	No	5.26	J	Yes	0.061	U	No	3.1	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	7.9		Yes	0.07	J	Yes	0.084	U	No	40.6		Yes	0.1	U	No	28	J	Yes	0.1	U	No	8.6	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	9.72		Yes	0.032	U	No	0.062	U	No	47.8		Yes	0.079	J	Yes	20.3	J	Yes	0.074	U	No	10.6	

BERA Tissue Chemistry Data from Above Dundee Dam

						Endosulfan I		
						µg/kg		
Species	Tissue Type	Event	Reach	Field Sample ID	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	Yes	0.83	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	Yes	0.66	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	Yes	0.97	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	Yes	0.84	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	Yes	0.54	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	Yes	1.1	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	Yes	0.35	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	Yes	0.44	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	Yes	1.35	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	Yes	0.31	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	Yes	1.12	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	Yes	0.9	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	Yes	1.6	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	Yes	1.41	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	Yes	1.17	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	Yes	0.51	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	Yes	1.13	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	Yes	0.5	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	Yes	0.79	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	Yes	0.31	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	Yes	2	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	Yes	5.7	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	Yes	1.2	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	Yes	0.41	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	Yes	2.4		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	Yes	2.8	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	Yes	0.74	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	Yes	0.39	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	Yes	0.63	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	Yes	1.1	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	Yes	0.72	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	Yes	0.43	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	Yes	0.6	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	Yes	0.23	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	Yes	0.96	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	Yes	0.16	U	No
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	Yes	0.31	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	Yes	0.14	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	Yes	0.094	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	Yes	0.099	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	Yes	0.11	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	Yes	0.11	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	Yes	0.078	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes	0.24	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	Yes	0.15	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes	0.19	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes	0.25	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes	0.12	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	Yes	0.19	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes	0.72	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes	0.74	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes	0.84	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	Yes	1.09	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes	0.59	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes	0.4	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes	1.3	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes	1.2	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes	0.37	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes	1	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes	0.55	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes	0.81	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes	0.83	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes	0.68	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes	1.3	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes	1	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	Yes	0.27	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes	0.52	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes	0.45	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes	0.99	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes	0.69	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes	0.57	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes	0.42	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes	0.88	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes	0.42	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes	0.57	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes	1	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	Yes	0.91	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes	0.45	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	Yes	0.21	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	Yes	0.42	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	Yes	0.36	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

					Endosulfan II			Endosulfan sulfate			Endrin			Endrin aldehyde			Endrin ketone			gamma-BHC (Lindane)			gamma-Chlordane			Heptachlor	
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg	
Species	Tissue Type	Event	Reach	Field Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.71	UJ	No	0.571	J	Yes	0.313	J	Yes	0.12	U	No	0.158	U	No	0.229	J	Yes	16.6		Yes	0.04	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.58	UJ	No	0.584	J	Yes	0.23	U	No	0.095	U	No	0.283	U	No	0.26	J	Yes	19.6		Yes	0.064	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	0.53	UJ	No	0.579	J	Yes	0.397	J	Yes	0.14	U	No	0.2	U	No	0.36	J	Yes	20.9		Yes	0.118	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	0.39	UJ	No	0.541	J	Yes	0.24	U	No	0.24	U	No	0.233	U	No	0.311	J	Yes	20.7		Yes	0.071	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	0.38	UJ	No	0.58	J	Yes	0.37	J	Yes	0.21	U	No	0.335	U	No	0.465	J	Yes	25.7		Yes	0.07	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	0.34	UJ	No	0.689	J	Yes	0.34	J	Yes	0.14	U	No	0.17	U	No	0.353	J	Yes	25.4		Yes	0.091	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.35	UJ	No	0.62	J	Yes	0.328	J	Yes	0.35	J	Yes	0.222	U	No	0.38	J	Yes	13.8		Yes	0.061	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.39	UJ	No	0.401	J	Yes	0.271	J	Yes	0.28	U	No	0.156	U	No	0.21	J	Yes	20.4		Yes	0.1	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.3	UJ	No	0.877	J	Yes	0.53	J	Yes	0.11	U	No	0.313	U	No	0.573	J	Yes	24.4		Yes	0.142	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	0.25	UJ	No	0.348	J	Yes	0.225	J	Yes	0.12	U	No	0.367	U	No	0.43	J	Yes	9.7		Yes	0.1	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.58	UJ	No	0.566	J	Yes	0.27	J	Yes	0.25	U	No	0.15	U	No	0.18	U	No	13.8		Yes	0.069	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.29	UJ	No	0.601	J	Yes	0.286	J	Yes	0.12	U	No	0.193	U	No	0.275	J	Yes	21		Yes	0.0899	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	0.45	UJ	No	0.911	J	Yes	0.56	J	Yes	0.12	U	No	0.248	U	No	0.32	J	Yes	24.1		Yes	0.1	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	0.45	UJ	No	0.666	J	Yes	0.351	J	Yes	0.18	U	No	0.279	U	No	0.31	U	No	23.2		Yes	0.088	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.54	UJ	No	0.649	J	Yes	0.32	U	No	0.17	U	No	0.307	U	No	0.417	J	Yes	26.4		Yes	0.0733	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.52	UJ	No	1.01	J	Yes	0.43	J	Yes	0.25	U	No	0.323	U	No	0.462	J	Yes	37.3		Yes	0.141	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	0.34	UJ	No	0.854	J	Yes	0.24	U	No	0.18	U	No	0.229	U	No	0.561	J	Yes	20.8		Yes	0.095	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.3	UJ	No	0.676	J	Yes	0.337	J	Yes	4.8		Yes	0.173	U	No	0.23	U	No	21.7		Yes	0.129	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.66	UJ	No	0.917	J	Yes	0.51	J	Yes	0.19	U	No	0.18	U	No	0.499	J	Yes	24.6		Yes	0.187	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	0.38	UJ	No	0.539	J	Yes	0.15	U	No	0.061	U	No	0.251	U	No	0.517	J	Yes	11		Yes	0.109	J
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	1.2	U	No	0.11	U	No	0.168	J	Yes	0.295	U	No	0.14	U	No	0.157	J	Yes	12		Yes	0.037	UJ
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	9.2	U	No	1.3		Yes	0.95	J	Yes	0.87	U	No	1.4	U	No	0.7	J	Yes	46.9		Yes	0.126	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	1.4	U	No	0.174	J	Yes	0.113	J	Yes	0.181	U	No	0.046	U	No	0.083	U	No	2.9		Yes	0.0515	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.26	U	No	0.087	J	Yes	0.03	U	No	0.152	U	No	0.049	J	Yes	0.081	U	No	1.2		Yes	0.026	UJ
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	5.4	U	No	0.501	J	Yes	0.5	J	Yes	0.48	U	No	0.5	J	Yes	0.47	J	Yes	13.2		Yes	0.318	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	5.8	U	No	0.624	J	Yes	0.29	U	No	0.31	U	No	0.74	U	No	0.31	J	Yes	24.9	J	Yes	0.071	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.33	UJ	No	0.569	J	Yes	0.293	J	Yes	0.09	U	No	0.077	U	No	0.17	J	Yes	15.3		Yes	0.037	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.22	UJ	No	0.592	J	Yes	0.2	J	Yes	0.054	U	No	0.12	U	No	0.27	J	Yes	20.3		Yes	0.076	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	0.25	UJ	No	0.736	J	Yes	0.47	J	Yes	0.065	U	No	0.11	U	No	0.34	J	Yes	22.4		Yes	0.086	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	0.21	UJ	No	0.597	J	Yes	0.22	J	Yes	0.11	U	No	0.127	U	No	0.24	J	Yes	21.8		Yes	0.059	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	0.23	UJ	No	0.615	J	Yes	0.26	J	Yes	0.095	U	No	0.16	U	No	0.441	J	Yes	26.1		Yes	0.054	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	0.21	UJ	No	0.818	J	Yes	0.38	J	Yes	0.092	U	No	0.12	U	No	0.397	J	Yes	30.2		Yes	0.11	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.17	UJ	No	0.73	J	Yes	0.23	J	Yes	0.23	J	Yes	0.113	U	No	0.461	J	Yes	17		Yes	0.06	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.17	UJ	No	0.527	J	Yes	0.301	J	Yes	2.3		Yes	0.0819	U	No	0.17	J	Yes	21		Yes	0.086	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.22	UJ	No	0.894	J	Yes	0.52	J	Yes	0.072	U	No	0.13	U	No	0.542	J	Yes	24.5		Yes	0.161	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.16	UJ	No	0.441	J	Yes	0.15	J	Yes	0.046	U	No	0.155	U	No	0.472	J	Yes	10		Yes	0.104	J
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	0.45	U	No	0.483	J	Yes	0.1	U	No	0.11	U	No	0.083	J	Yes	0.094	J	Yes	11.6		Yes	0.0511	UJ
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.19	U	No	0.14	J	Yes	0.024	U	No	0.032	U	No	0.029	U	No	0.049	U	No	6.3	J	Yes	0.0287	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.095	U	No	0.102	J	Yes	0.016	U	No	0.022	U	No	0.067	U	No	0.059	U	No	3.58	J	Yes	0.018	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.13	U	No	0.0652	J	Yes	0.021	U	No	0.022	U	No	0.03	U	No	0.06	U	No	2.47	J	Yes	0.029	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.083	U	No	0.0995	J	Yes	0.034	U	No	0.035	U	No	0.03	U	No	0.057	U	No	4.24	J	Yes	0.013	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.11	U	No	0.0908	J	Yes	0.022	U	No	0.022	U	No	0.03	U	No	0.087	U	No	1.69	J	Yes	0.0088	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.098	U	No	0.103	J	Yes	0.032	U	No	0.023	U	No	0.038	U	No	0.073	U	No	3.88	J	Yes	0.013	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	0.14	U	No	0.206	J	Yes	0.076	U	No	0.081	U	No	0.085	U	No	0.072	J	Yes	12.9	J	Yes	0.0366	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	0.13	U	No	0.0807	J	Yes	0.035	U	No	0.097	J	Yes	0.07	U	No	0.052	U	No	6.93	J	Yes	0.022	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	0.32	U	No	0.147	J	Yes	0.085	U	No	0.102	J	Yes	0.079	J	Yes	0.079	J	Yes	19.1	J	Yes	0.0241	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	0.11	U	No	0.302	J	Yes	0.124	U	No	0.099	U	No	0.066	J	Yes	0.136	J	Yes	21.2	J	Yes	0.0915	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.23	U	No	0.271	J	Yes	0.13	U	No	0.11	U	No	0.063	J	Yes	0.22	J	Yes	16.8	J	Yes	0.0629	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	0.14	U	No	0.175	J	Yes	0.085	U	No	0.03	U	No	0.035	J	Yes	0.08	U	No	15.6	J	Yes	0.014	U
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	0.73	U	No	0.29	J	Yes	0.116	J	Yes	0.068	U	No	0.028	J	Yes	0.157	J	Yes	45.5		Yes	0.147	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	0.51	U	No	0.292	J	Yes	0.17	U	No	0.2	U	No	0.045	U	No	0.229	J	Yes	45		Yes	0.153	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	1.4	U	No	0.468	J	Yes	0.29	U	No	0.33	U	No	0.072	J	Yes	0.292	J	Yes	56.6		Yes	0.201	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	2	U	No	0.581	J	Yes	0.17	J	Yes	0.18	U	No	0.041	U	No	0.381	J	Yes	53.9		Yes	0.18	UJ
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	0.48	U	No	0.619	J	Yes	0.2	J	Yes	0.22	U	No	0.067	J	Yes	0.402	J	Yes	63		Yes	0.209	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	0.58	U	No	0.203	J	Yes	0.093	U	No	0.27	U	No	0.038	U	No	0.085	J	Yes	28.6		Yes	0.0867	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	1.6	U	No	0.492	J	Yes	0.35	U	No	0.19	U	No	0.093	J	Yes	0.284	J	Yes	82.2		Yes	0.271	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	1.8	U	No	0.567	J	Yes	0.2	J	Yes	0.17	U	No	0.156	J	Yes	0.214	J	Yes	53.9		Yes	0.214	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	0.46	U	No	0.148	J	Yes	0.065	U	No	0.094	U	No	0.045	J	Yes	0.104	J	Yes	20		Yes	0.0765	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	0.77	U	No	0.17	J	Yes	0.079	U	No	0.216	U	No	0.061	U	No	0.089	U	No	16.8		Yes	0.065	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	1.75	J	Yes	0.224	J	Yes	0.075	J	Yes	0.039	U	No	0.037	U	No	0.083	J	Yes	16		Yes	0.0696	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	0.38	U	No	0.364	J	Yes	0.12	J	Yes	0.081	U	No	0.051	J	Yes	0.207	J	Yes	40.8		Yes	0.149	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	0.44	U	No	0.289	J	Yes	0.071	U	No	0.139	U	No	0.057	J	Yes	0.18	J	Yes	28.5		Yes	0.0976	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	0.46	U	No	0.35	J	Yes	0.087	U	No	0.089	U	No	0.032	J	Yes	0.19	J	Yes	38.1		Yes	0.0982	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	0.49	U	No	0.637	J	Yes	0.2	U	No	0.26	U	No	0.069	J	Yes	0.299	J	Yes	47.3		Yes	0.25	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	0.43	U	No	0.463	J	Yes	0.13	U	No	0.26	U	No	0.079	J	Yes	0.261	J	Yes	57.4		Yes	0.154	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	0.55	U	No	0.156	J	Yes	0.077	U	No	0.11	U	No	0.034	J	Yes	0.124	J	Yes	28.3		Yes	0.075	UJ
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	0.77	U	No	0.382	J	Yes	0.11	U	No	0.18	U	No	0.055	J	Yes	0.294	J	Yes	46.4		Yes	0.182	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	0.55	U	No	0.269	J	Yes	0.17	U	No	0.067	U	No	0.087	J	Yes	0.31	J	Yes	40.8		Yes	0.19	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	1.08	J	Yes	0.467	J	Yes	0.14	U	No	0.054	U	No	0.066	U	No	0.26	U	No	62.2		Yes	0.25	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	0.52	U	No	0.361	J	Yes	0.14	J	Yes	0.055	U	No	0.051	J	Yes	0.201	J	Yes	58.3		Yes	0.19	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	0.25	U	No	0.247	J	Yes	0.069	U	No	0.084	U	No	0.029	J	Yes	0.19	J	Yes	37.2		Yes	0.129	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	0.54	U	No	0.435	J	Yes	0.14	J	Yes	0.13	U	No	0.065	J	Yes	0.265	J	Yes	51.6		Yes	0.185	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	0.76	U	No	0.49	J	Yes	0.13	J	Yes	0.084	U	No	0.032	J	Yes	0.319	J	Yes	46		Yes	0.092	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	0.24	U	No	0.532	J	Yes	0.15	J	Yes	0.089	U	No	0.056	J	Yes	0.333	J	Yes	54.9		Yes	0.173	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	0.33	U	No	0.288	J	Yes	0.33	U	No	0.12	U	No	0.05	U	No	0.088	U	No	29.7	J	Yes	0.101	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	1.1	U	No	1.13		Yes	0.304	U	No	0.17	J	Yes	0.101	J	Yes	0.18	U	No	27.7	J	Yes	0.15	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	0.48	U	No	1.14		Yes	0.49	U	No	0.2	U	No	0.095	J	Yes	0.225	J	Yes	53.4	J	Yes	0.198	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	0.22	U	No	0.781	J	Yes	0.59	U	No	0.27	U	No	0.05	U	No	0.297	J	Yes	76.3	J	Yes	1.12	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.059	U	No	0.0688	J	Yes	0.042	U	No	0.051	U	No	0.039	U	No	0.059	U	No	5.39	J	Yes	0.0201	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.44	U	No	0.45	J	Yes	0.26	U	No	0.11	U	No	0.07	U	No	0.094	U	No	11.5	J	Yes	0.0911	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	0.27	U	No	0.378	J	Yes	0.16	U	No	0.099	U	No	0.052	U	No	0.08	J	Yes	17.6	J	Yes	0.085	J

BERA Tissue Chemistry Data from Above Dundee Dam

					Heptachlor epoxide			Hexachlorobenzene			Methoxychlor			Oxychlordane			Total 2,4' and 4,4' DDD			Total 2,4' and 4,4' DDD (ND=0.5DL)			Total 2,4' and 4,4' DDD (ND=DL)			Total
						µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			
Species	Tissue Type	Event	Reach	Field Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	Yes	22.4		Yes	2.42	J	Yes	0.15	U	No	47	J	Yes	70	J	Yes	70	J	Yes	70	J	Yes	150
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	Yes	21.6		Yes	2.35	J	Yes	0.087	J	Yes	42.9	J	Yes	56	J	Yes	56	J	Yes	56	J	Yes	130
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	Yes	31.6		Yes	3		Yes	0.13	U	No	55	J	Yes	71	J	Yes	71	J	Yes	71	J	Yes	150
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	Yes	29.2		Yes	3.6		Yes	0.12	U	No	44.2	J	Yes	63	J	Yes	63	J	Yes	63	J	Yes	120
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	No	35.3		Yes	3.4		Yes	0.16	U	No	49	J	Yes	80	J	Yes	80	J	Yes	80	J	Yes	160
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	Yes	28.7		Yes	2.9		Yes	0.12	U	No	29.6	J	Yes	46	J	Yes	46	J	Yes	46	J	Yes	88
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	No	25.6		Yes	2.07	J	Yes	0.11	U	No	43.3	J	Yes	44	J	Yes	44	J	Yes	44	J	Yes	110
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	No	25.5		Yes	2.34	J	Yes	0.072	J	Yes	58.3	J	Yes	68	J	Yes	68	J	Yes	68	J	Yes	200
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	Yes	44.4		Yes	3.2		Yes	0.063	U	No	102	J	Yes	82	J	Yes	82	J	Yes	82	J	Yes	230
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	Yes	16.5		Yes	1.91	J	Yes	0.16	U	No	15.2	J	Yes	18	J	Yes	18	J	Yes	18	J	Yes	59
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	No	19.3		Yes	2.26	J	Yes	0.14	U	No	42.5	J	Yes	68		Yes	68		Yes	68		Yes	150
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	Yes	21.9		Yes	2.22	J	Yes	0.13	U	No	35.8	J	Yes	54	J	Yes	54	J	Yes	54	J	Yes	110
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	No	38.1		Yes	3.9		Yes	0.13	U	No	65.3	J	Yes	94	J	Yes	94	J	Yes	94	J	Yes	190
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	No	35.3		Yes	4.5		Yes	0.12	U	No	50.9	J	Yes	73	J	Yes	73	J	Yes	73	J	Yes	140
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	Yes	32.5		Yes	3.2		Yes	0.089	J	Yes	50.9	J	Yes	79	J	Yes	79	J	Yes	79	J	Yes	160
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	Yes	40		Yes	4.2		Yes	0.087	U	No	45.3	J	Yes	67	J	Yes	67	J	Yes	67	J	Yes	120
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	Yes	36.4		Yes	3.1		Yes	0.09	U	No	60.3	J	Yes	63	J	Yes	63	J	Yes	63	J	Yes	150
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	Yes	28.4		Yes	2.6		Yes	0.097	U	No	62.3	J	Yes	72	J	Yes	72	J	Yes	72	J	Yes	220
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	Yes	45.4		Yes	3.3		Yes	0.12	U	No	100	J	Yes	84	J	Yes	84	J	Yes	84	J	Yes	250
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	Yes	18.6		Yes	2.32	J	Yes	0.13	U	No	17.4	J	Yes	22	J	Yes	22	J	Yes	22	J	Yes	67
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	No	13.7		Yes	1.7		Yes	0.16	U	No	34.2	J	Yes	48	J	Yes	48	J	Yes	48	J	Yes	110
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	Yes	53.8		Yes	5.1		Yes	4.6	U	No	76.1	J	Yes	170	J	Yes	170	J	Yes	170	J	Yes	280
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	Yes	4.6		Yes	0.624	J	Yes	0.047	U	No	21.1	J	Yes	25	J	Yes	25	J	Yes	25	J	Yes	82
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	No	1.5		Yes	0.156	J	Yes	0.045	U	No	4	J	Yes	7	J	Yes	7	J	Yes	7	J	Yes	51
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	Yes	16.8		Yes	1.8		Yes	0.39	U	No	36.9	J	Yes	40	J	Yes	40	J	Yes	40	J	Yes	100
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	Yes	25.6	J	Yes	3.2		Yes	0.69	U	No	59.6	J	Yes	79	J	Yes	79	J	Yes	79	J	Yes	210
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	Yes	21		Yes	2.35	J	Yes	0.073	U	No	44.9	J	Yes	69	J	Yes	69	J	Yes	69	J	Yes	150
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	Yes	21.7		Yes	2.29	J	Yes	0.076	J	Yes	39.5	J	Yes	55	J	Yes	55	J	Yes	55	J	Yes	120
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	Yes	34.7		Yes	3.4		Yes	0.065	U	No	59.9	J	Yes	82	J	Yes	82	J	Yes	82	J	Yes	170
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	Yes	31.9		Yes	4		Yes	0.06	U	No	47.2	J	Yes	67	J	Yes	67	J	Yes	67	J	Yes	130
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	Yes	33.9		Yes	3.3		Yes	0.085	J	Yes	50	J	Yes	79	J	Yes	79	J	Yes	79	J	Yes	160
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	Yes	33.2		Yes	3.4		Yes	0.053	U	No	35.9	J	Yes	54	J	Yes	54	J	Yes	54	J	Yes	100
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	Yes	30.5		Yes	2.5	J	Yes	0.051	U	No	51	J	Yes	53	J	Yes	53	J	Yes	53	J	Yes	130
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	Yes	26.8		Yes	2.5	J	Yes	0.061	J	Yes	60.1	J	Yes	70	J	Yes	70	J	Yes	70	J	Yes	210
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	Yes	44.8		Yes	3.2		Yes	0.043	U	No	100	J	Yes	83	J	Yes	83	J	Yes	83	J	Yes	240
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	Yes	17.5		Yes	2.11	J	Yes	0.073	U	No	16.3	J	Yes	20	J	Yes	20	J	Yes	20	J	Yes	63
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	No	8.1		Yes	0.0692	U	No	0.152	J	Yes	12.5	J	Yes	18		Yes	18		Yes	18		Yes	23
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	Yes	2		Yes	0.237	J	Yes	0.035	U	No	2		Yes	5.6	J	Yes	5.6	J	Yes	5.6	J	Yes	13
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	No	1.11		Yes	0.228	J	Yes	0.032	U	No	1		Yes	4.6	J	Yes	4.6	J	Yes	4.6	J	Yes	11
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	Yes	0.96		Yes	0.164	J	Yes	0.046	U	No	1.13		Yes	3.1	J	Yes	3.1	J	Yes	3.1	J	Yes	10
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	No	1.37		Yes	0.222	J	Yes	0.029	U	No	1.26		Yes	4.4	J	Yes	4.5	J	Yes	4.6	J	Yes	12
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	No	0.53	J	Yes	0.0772	J	Yes	0.061	U	No	0.691	J	Yes	2.1	J	Yes	2.1	J	Yes	2.2	J	Yes	16
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	No	1.06		Yes	0.193	J	Yes	0.831	J	Yes	1.27		Yes	3.8	J	Yes	3.8	J	Yes	3.8	J	Yes	7.6
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes	4.07		Yes	0.73	J	Yes	0.051	U	No	6.45		Yes	17	J	Yes	17	J	Yes	17	J	Yes	48
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	No	1.01		Yes	0.215	J	Yes	0.67	J	Yes	1.71		Yes	7.4	J	Yes	7.4	J	Yes	7.4	J	Yes	19
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes	7.1		Yes	0.429	J	Yes	0.09	U	No	3.3		Yes	22	J	Yes	22	J	Yes	22	J	Yes	36
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes	7.1		Yes	0.813	J	Yes	0.397	J	Yes	6.8		Yes	15	J	Yes	15	J	Yes	15	J	Yes	23
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes	9.8		Yes	1.1		Yes	0.139	U	No	11.6		Yes	20	J	Yes	20	J	Yes	20	J	Yes	51
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	No	3.26		Yes	0.398	J	Yes	0.054	U	No	4.99		Yes	11	J	Yes	11	J	Yes	11	J	Yes	24
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes	8.63		Yes	1.86		Yes	0.11	U	No	9.39		Yes	69	J	Yes	69	J	Yes	69	J	Yes	79
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes	10.4		Yes	2.57		Yes	0.115	U	No	10.2		Yes	61	J	Yes	61	J	Yes	61	J	Yes	86
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes	16.5		Yes	4.32		Yes	0.29	J	Yes	22.2		Yes	95	J	Yes	95	J	Yes	95	J	Yes	120
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	No	16.2		Yes	4.71		Yes	0.26	J	Yes	20.2		Yes	97	J	Yes	97	J	Yes	97	J	Yes	150
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes	17.9		Yes	5.07		Yes	0.39	J	Yes	23.2		Yes	110	J	Yes	110	J	Yes	110	J	Yes	130
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes	4.4		Yes	1.02		Yes	0.09	U	No	5.88		Yes	38	J	Yes	38	J	Yes	38	J	Yes	67
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes	17.1		Yes	3.62		Yes	0.227	J	Yes	19.1		Yes	130	J	Yes	130	J	Yes	130	J	Yes	110
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes	16.2		Yes	4.01		Yes	0.191	U	No	18.8		Yes	110	J	Yes	110	J	Yes	110	J	Yes	140
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes	4.9		Yes	0.945	J	Yes	0.069	U	No	5		Yes	28	J	Yes	28	J	Yes	28	J	Yes	45
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes	3.56		Yes	0.757	J	Yes	0.092	U	No	3.47		Yes	24	J	Yes	24	J	Yes	24	J	Yes	41
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes	5.06		Yes	0.832	J	Yes	0.071	U	No	6.05		Yes	27	J	Yes	27	J	Yes	27	J	Yes	56
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes	11.9		Yes	2.28		Yes	0.1	U	No	16.3		Yes	63	J	Yes	63	J	Yes	63	J	Yes	87
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes	7.1		Yes	2		Yes	0.087	U	No	8.9		Yes	41	J	Yes	41	J	Yes	41	J	Yes	84
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes	10.1		Yes	2.1		Yes	0.083	U	No	12.9		Yes	62	J	Yes	62	J	Yes	62	J	Yes	95
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes	14.1		Yes	2.2		Yes	0.133	U	No	16.9		Yes	79	J	Yes	79	J	Yes	79	J	Yes	120
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes	13.8		Yes	2.75		Yes	0.19	U	No	17.6		Yes	110	J	Yes	110	J	Yes	110	J	Yes	120
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	No	5.26		Yes	1.74		Yes	0.095	U	No	4.86		Yes	39	J	Yes	39	J	Yes	39	J	Yes	55
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes	13.5		Yes	3.98		Yes	0.164	U	No	16.6		Yes	88	J	Yes	88	J	Yes	88	J	Yes	110
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes	13.1		Yes	2.59		Yes	0.107	U	No	8.97		Yes	43	J	Yes	43	J	Yes	43	J	Yes	43
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes	13		Yes	3.5		Yes	0.131	U	No	14.7		Yes	100	J	Yes	100	J	Yes	100	J	Yes	170
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes	11.6		Yes	2.48		Yes	0.115	J	Yes	12.8		Yes	90	J	Yes	90	J	Yes	90	J	Yes	90
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes	8.7		Yes	2.06	J	Yes	0.05	U	No	8.6		Yes	51	J	Yes	51	J	Yes	51	J	Yes	73
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes	15.1		Yes	3.68		Yes	0.21	J	Yes	20.3		Yes	85	J	Yes	85	J	Yes	85	J	Yes	110
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes	13		Yes	3.9		Yes	0.19	J	Yes	17		Yes	80	J	Yes	80	J	Yes	80	J	Yes	130
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes	15.4		Yes	4.1		Yes	0.28	J	Yes	19.9		Yes	94	J	Yes	94	J	Yes	94	J	Yes	120
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes	6.2		Yes	1.3		Yes	0.061	U	No	17.3		Yes	52	J	Yes	52	J	Yes	52	J	Yes	230
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes	9.33		Yes	1.75		Yes	0.078	U	No	28.9		Yes	49	J	Yes	49	J	Yes	49	J	Yes	1.1
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	Yes	15.9		Yes	2.34		Yes	0.063	U	No	34.1		Yes	65	J	Yes	65	J	Yes	65	J	Yes	290
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes	15.2		Yes	1.63		Yes	0.082	U	No	32.1		Yes	50	J	Yes	50	J	Yes	50	J	Yes	130
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	Yes	1.36		Yes	0.3	J	Yes	0.036	U	No	3.42		Yes	10	J	Yes	10	J	Yes	10	J	Yes	49
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	Yes	3.9		Yes	0.684	J	Yes	0.028	U	No	12		Yes	21	J	Yes	21	J	Yes	21	J	Yes	210
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	Yes	5.2		Yes	0.976	J	Yes	0.038	U	No	10.4		Yes	21	J	Yes	21	J	Yes	21	J	Yes	170

BERA Tissue Chemistry Data from Above Dundee Dam

					2,4' and 4,4' DDE		Total 2,4' and 4,4' DDE (ND=0.5DL)		
					µg/kg		µg/kg		
Species	Tissue Type	Event	Reach	Field Sample ID	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	J	Yes	150	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	J	Yes	130	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	J	Yes	150	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	J	Yes	120	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	J	Yes	160	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	J	Yes	88	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	J	Yes	110	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	J	Yes	200	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	J	Yes	230	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	J	Yes	59	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	J	Yes	150	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	J	Yes	110	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	J	Yes	190	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	J	Yes	140	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	J	Yes	160	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	J	Yes	120	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	J	Yes	150	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	J	Yes	220	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	J	Yes	250	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	J	Yes	67	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	J	Yes	110	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	J	Yes	280	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	J	Yes	82	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	J	Yes	51	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	J	Yes	100	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	J	Yes	210	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	J	Yes	150	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	J	Yes	120	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	J	Yes	170	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	J	Yes	130	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	J	Yes	160	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	J	Yes	100	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	J	Yes	130	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	J	Yes	210	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	J	Yes	240	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	J	Yes	63	J	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	J	Yes	23	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	J	Yes	13	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	J	Yes	11	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	J	Yes	10	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	J	Yes	12	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	J	Yes	16	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	J	Yes	7.6	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	J	Yes	48	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	J	Yes	19	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	J	Yes	36	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	J	Yes	23	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	J	Yes	51	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	J	Yes	24	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	J	Yes	79	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	J	Yes	86	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	J	Yes	120	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	J	Yes	150	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	J	Yes	130	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	J	Yes	67	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	J	Yes	110	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	J	Yes	140	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	J	Yes	45	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	J	Yes	41	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	J	Yes	56	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	J	Yes	87	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	J	Yes	84	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	J	Yes	95	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	J	Yes	120	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	J	Yes	120	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	J	Yes	55	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	J	Yes	110	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	J	Yes	43	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	J	Yes	170	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	J	Yes	90	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	J	Yes	73	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	J	Yes	110	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	J	Yes	130	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	J	Yes	120	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	J	Yes	230	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	J	Yes	110	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	J	Yes	290	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	J	Yes	130	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	J	Yes	49	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	J	Yes	210	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	J	Yes	170	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					Total 2,4' and 4,4' DDE (ND=DL)			Total 2,4' and 4,4' DDT			Total 2,4' and 4,4' DDT (ND=0.5DL)			Total 2,4' and 4,4' DDT (ND=DL)			Total 4,4' DDT			Total 4,4' DDT (ND=0.5DL)			Total 4,4' DDT (ND=DL)			Total Chlordar	
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg	
Species	Tissue Type	Event	Reach	Field Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	150	J	Yes	11	J	Yes	11	J	Yes	11	J	Yes	230		Yes	230		Yes	230		Yes	204	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	130	J	Yes	11	J	Yes	11	J	Yes	11	J	Yes	200		Yes	200		Yes	200		Yes	212	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	150	J	Yes	14	J	Yes	14	J	Yes	14	J	Yes	230		Yes	230		Yes	230		Yes	231	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	120	J	Yes	10	J	Yes	10	J	Yes	10	J	Yes	190		Yes	190		Yes	190		Yes	210	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	160	J	Yes	12	J	Yes	12	J	Yes	12	J	Yes	250		Yes	250		Yes	250		Yes	238	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	88	J	Yes	15	J	Yes	15	J	Yes	15	J	Yes	150		Yes	150		Yes	150		Yes	202	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	110	J	Yes	12	J	Yes	12	J	Yes	12	J	Yes	160		Yes	160		Yes	160		Yes	168	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	200	J	Yes	23	J	Yes	23	J	Yes	23	J	Yes	290		Yes	290		Yes	290		Yes	249	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	230	J	Yes	27	J	Yes	27	J	Yes	27	J	Yes	340		Yes	340		Yes	340		Yes	339	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	59	J	Yes	4.8	J	Yes	4.8	J	Yes	4.8	J	Yes	80		Yes	80		Yes	80		Yes	74.1	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	150	J	Yes	11	J	Yes	11	J	Yes	11	J	Yes	230		Yes	230		Yes	230		Yes	189	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	110	J	Yes	8		Yes	8.1		Yes	8.1		Yes	170		Yes	170		Yes	170		Yes	194	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	190	J	Yes	19	J	Yes	19	J	Yes	19	J	Yes	300		Yes	300		Yes	300		Yes	282	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	140	J	Yes	13	J	Yes	13	J	Yes	13	J	Yes	230		Yes	230		Yes	230		Yes	241	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	160	J	Yes	13	J	Yes	13	J	Yes	13	J	Yes	250		Yes	250		Yes	250		Yes	242	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	120	J	Yes	23	J	Yes	23	J	Yes	23	J	Yes	210		Yes	210		Yes	210		Yes	241	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	150	J	Yes	18	J	Yes	18	J	Yes	18	J	Yes	220		Yes	220		Yes	220		Yes	247	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	220	J	Yes	26	J	Yes	26	J	Yes	26	J	Yes	320		Yes	320		Yes	320		Yes	269	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	250	J	Yes	30	J	Yes	30	J	Yes	30	J	Yes	360		Yes	360		Yes	360		Yes	339	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	67	J	Yes	6.1	J	Yes	6.1	J	Yes	6.1	J	Yes	93		Yes	93		Yes	93		Yes	83.6	J
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	110	J	Yes	8.5	J	Yes	8.5	J	Yes	8.5	J	Yes	170	J	Yes	170	J	Yes	170	J	Yes	144	J
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	280	J	Yes	40		Yes	40		Yes	41		Yes	490	J	Yes	490	J	Yes	490	J	Yes	454	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	82	J	Yes	13	J	Yes	13	J	Yes	13	J	Yes	120	J	Yes	120	J	Yes	120	J	Yes	81.9	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	51	J	Yes	3.8		Yes	3.9		Yes	4		Yes	62	J	Yes	62	J	Yes	62	J	Yes	23.9	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	100	J	Yes	16		Yes	16		Yes	16		Yes	150	J	Yes	150	J	Yes	150	J	Yes	164	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	210	J	Yes	21	J	Yes	22	J	Yes	23	J	Yes	310	J	Yes	310	J	Yes	310	J	Yes	263	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	150	J	Yes	11	J	Yes	11	J	Yes	11	J	Yes	230		Yes	230		Yes	230		Yes	197	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	120	J	Yes	9.6	J	Yes	9.6	J	Yes	9.6	J	Yes	190		Yes	190		Yes	190		Yes	203	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	170	J	Yes	16	J	Yes	16	J	Yes	16	J	Yes	260		Yes	260		Yes	260		Yes	255	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	130	J	Yes	11	J	Yes	11	J	Yes	11	J	Yes	210		Yes	210		Yes	210		Yes	220	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	160	J	Yes	13	J	Yes	13	J	Yes	13	J	Yes	250		Yes	250		Yes	250		Yes	240	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	100	J	Yes	18	J	Yes	18	J	Yes	18	J	Yes	170		Yes	170		Yes	170		Yes	218	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	130	J	Yes	15	J	Yes	15	J	Yes	15	J	Yes	190		Yes	190		Yes	190		Yes	204	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	210	J	Yes	24	J	Yes	24	J	Yes	24	J	Yes	300		Yes	300		Yes	300		Yes	258	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	240	J	Yes	28	J	Yes	28	J	Yes	28	J	Yes	350		Yes	350		Yes	350		Yes	339	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	63	J	Yes	5.4	J	Yes	5.4	J	Yes	5.4	J	Yes	86		Yes	86		Yes	86		Yes	78.7	J
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	23	J	Yes	4.3	J	Yes	4.3	J	Yes	4.3	J	Yes	40		Yes	40		Yes	40		Yes	90.1	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	13	J	Yes	0.76	J	Yes	0.83	J	Yes	0.89	J	Yes	18	J	Yes	18	J	Yes	18	J	Yes	30.4	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	11	J	Yes	1.5		Yes	1.6		Yes	1.6		Yes	16	J	Yes	16	J	Yes	16	J	Yes	18.1	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	10	J	Yes	0.6	J	Yes	0.62	J	Yes	0.64	J	Yes	14	J	Yes	14	J	Yes	14	J	Yes	14.1	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	12	J	Yes	1.2		Yes	1.3		Yes	1.3		Yes	17	J	Yes	17	J	Yes	17	J	Yes	21.7	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	17	J	Yes	0.45	J	Yes	0.47	J	Yes	0.48	J	Yes	19	J	Yes	19	J	Yes	19	J	Yes	11	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	7.6	J	Yes	1.7	J	Yes	1.7	J	Yes	1.7	J	Yes	13	J	Yes	13	J	Yes	13	J	Yes	11.4	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	48	J	Yes	1.1		Yes	1.1		Yes	1.1		Yes	64	J	Yes	64	J	Yes	64	J	Yes	75.8	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	19	J	Yes	0.6	J	Yes	0.67	J	Yes	0.74	J	Yes	26	J	Yes	26	J	Yes	26	J	Yes	33.6	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	36	J	Yes	1.7		Yes	1.7		Yes	1.8		Yes	57	J	Yes	57	J	Yes	57	J	Yes	80.7	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	23	J	Yes	2.9	J	Yes	2.9	J	Yes	2.9	J	Yes	39	J	Yes	39	J	Yes	39	J	Yes	99.4	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	51	J	Yes	5	J	Yes	5	J	Yes	5	J	Yes	73	J	Yes	73	J	Yes	73	J	Yes	108	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	24	J	Yes	3.1	J	Yes	3.1	J	Yes	3.1	J	Yes	37	J	Yes	37	J	Yes	37	J	Yes	80.3	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	79	J	Yes	3		Yes	3		Yes	3		Yes	130	J	Yes	130	J	Yes	130	J	Yes	207	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	86	J	Yes	10		Yes	10		Yes	10		Yes	130	J	Yes	130	J	Yes	130	J	Yes	198	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	120	J	Yes	2.7		Yes	2.7		Yes	2.7		Yes	200	J	Yes	200	J	Yes	200	J	Yes	292	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	150	J	Yes	4.7		Yes	4.7		Yes	4.7		Yes	230	J	Yes	230	J	Yes	230	J	Yes	267	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	130	J	Yes	4.6		Yes	4.6		Yes	4.6		Yes	230	J	Yes	230	J	Yes	230	J	Yes	322	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	67	J	Yes	0.65	J	Yes	0.65	J	Yes	0.65	J	Yes	100	J	Yes	100	J	Yes	100	J	Yes	123	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	110	J	Yes	6.5		Yes	6.5		Yes	6.5		Yes	210	J	Yes	210	J	Yes	210	J	Yes	373	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	140	J	Yes	3.5		Yes	3.5		Yes	3.5		Yes	230	J	Yes	230	J	Yes	230	J	Yes	289	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	45	J	Yes	4.1	J	Yes	4.1	J	Yes	4.1	J	Yes	66	J	Yes	66	J	Yes	66	J	Yes	91.6	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	41	J	Yes	0.71	J	Yes	0.71	J	Yes	0.71	J	Yes	60	J	Yes	60	J	Yes	60	J	Yes	78.6	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	56	J	Yes	1.1	J	Yes	1.1	J	Yes	1.1	J	Yes	79	J	Yes	79	J	Yes	79	J	Yes	88	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	87	J	Yes	1.7	J	Yes	1.7	J	Yes	1.7	J	Yes	140	J	Yes	140	J	Yes	140	J	Yes	209	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	84	J	Yes	1		Yes	1.4		Yes	1.7		Yes	120	J	Yes	120	J	Yes	120	J	Yes	141	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	95	J	Yes	2.5		Yes	2.5		Yes	2.5		Yes	150	J	Yes	150	J	Yes	150	J	Yes	197	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	120	J	Yes	8		Yes	8		Yes	8		Yes	190	J	Yes	190	J	Yes	190	J	Yes	249	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	120	J	Yes	4.8		Yes	4.8		Yes	4.8		Yes	210	J	Yes	210	J	Yes	210	J	Yes	293	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	55	J	Yes	0.57	J	Yes	0.76	J	Yes	0.95	J	Yes	84	J	Yes	84	J	Yes	84	J	Yes	124	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	110	J	Yes	2.7		Yes	2.7		Yes	2.7		Yes	180	J	Yes	180	J	Yes	180	J	Yes	247	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	43	J	Yes	2.1	J	Yes	2.1	J	Yes	2.1	J	Yes	74	J	Yes	74	J	Yes	74	J	Yes	169	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	170	J	Yes	3.3		Yes	3.3		Yes	3.3		Yes	260	J	Yes	260	J	Yes	260	J	Yes	303	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	90	J	Yes	4.2		Yes	4.2		Yes	4.2		Yes	160	J	Yes	160	J	Yes	160	J	Yes	265	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	73	J	Yes	8.2	J	Yes	8.2	J	Yes	8.2	J	Yes	110	J	Yes	110	J	Yes	110	J	Yes	165	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	110	J	Yes	2.4	J	Yes	2.4	J	Yes	2.4	J	Yes	180	J	Yes	180	J	Yes	180	J	Yes	266	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	130	J	Yes	3.6		Yes	3.7		Yes	3.8		Yes	200	J	Yes	200	J	Yes	200	J	Yes	228	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	120	J	Yes	3.9		Yes	3.9		Yes	3.9		Yes	200	J	Yes	200	J	Yes	200	J	Yes	281	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	230	J	Yes	6.3		Yes	6.3		Yes	6.3		Yes	280	J	Yes	280	J	Yes	280	J	Yes	176	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	210	J	Yes	18	J	Yes	18	J	Yes	18	J	Yes	64	J	Yes	170	J	Yes	270	J	Yes	245	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	290	J	Yes	37		Yes	37		Yes	37		Yes	380	J	Yes	380	J	Yes	380	J	Yes	363	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	130	J	Yes	20		Yes	20		Yes	20		Yes	190	J	Yes	190	J	Yes	190	J	Yes	374	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	49	J	Yes	0.83	J	Yes	0.84	J	Yes	0.86	J	Yes	59	J	Yes	59	J	Yes	59	J	Yes	33.6	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	210	J	Yes	7.9		Yes	8		Yes	8.1		Yes	240	J	Yes	240	J	Yes	240	J	Yes	104	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	170	J	Yes	11		Yes	11		Yes	11		Yes	200	J	Yes	200	J	Yes	200	J	Yes	113	J

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	e Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	Total Chlordane (ND=0.5DL) µg/kg			Total Chlordane (ND=DL) µg/kg			Total DDx µg/kg			Total DDx (ND=0.5DL) µg/kg			Total DDx (ND=DL) µg/kg			Total Endosulfan µg/kg			Total Endosulfan (ND=0.5DL) µg/kg			Total Endosulfan (N µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	204	J	Yes	204	J	Yes	230	J	Yes	230	J	Yes	230	J	Yes	0.571	J	Yes	1.34	J	Yes	2.11	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	212	J	Yes	212	J	Yes	200	J	Yes	200	J	Yes	200	J	Yes	0.584	J	Yes	1.2	J	Yes	1.82	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	231	J	Yes	231	J	Yes	230	J	Yes	230	J	Yes	230	J	Yes	0.579	J	Yes	1.33	J	Yes	2.08	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	210	J	Yes	210	J	Yes	200	J	Yes	200	J	Yes	200	J	Yes	1.38	J	Yes	1.58	J	Yes	1.77	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	238	J	Yes	238	J	Yes	260	J	Yes	260	J	Yes	260	J	Yes	0.58	J	Yes	1.04	J	Yes	1.5	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	202	J	Yes	202	J	Yes	150	J	Yes	150	J	Yes	150	J	Yes	0.689	J	Yes	1.41	J	Yes	2.13	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	168	J	Yes	168	J	Yes	160	J	Yes	160	J	Yes	160	J	Yes	0.62	J	Yes	0.97	J	Yes	1.32	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	249	J	Yes	249	J	Yes	290	J	Yes	290	J	Yes	290	J	Yes	0.401	J	Yes	0.816	J	Yes	1.23	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	339	J	Yes	339	J	Yes	340	J	Yes	340	J	Yes	340	J	Yes	2.23	J	Yes	2.38	J	Yes	2.53	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	74.1	J	Yes	74.1	J	Yes	81	J	Yes	81	J	Yes	81	J	Yes	0.348	J	Yes	0.628	J	Yes	0.908	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	189	J	Yes	189	J	Yes	230	J	Yes	230	J	Yes	230	J	Yes	1.69	J	Yes	1.98	J	Yes	2.27	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	194	J	Yes	194	J	Yes	170	J	Yes	180	J	Yes	180	J	Yes	0.601	J	Yes	1.2	J	Yes	1.79	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	282	J	Yes	282	J	Yes	310	J	Yes	310	J	Yes	310	J	Yes	0.911	J	Yes	1.94	J	Yes	2.96	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	241	J	Yes	241	J	Yes	230	J	Yes	230	J	Yes	230	J	Yes	2.08	J	Yes	2.3	J	Yes	2.53	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	242	J	Yes	242	J	Yes	260	J	Yes	260	J	Yes	260	J	Yes	1.82	J	Yes	2.09	J	Yes	2.36	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	241	J	Yes	241	J	Yes	210	J	Yes	210	J	Yes	210	J	Yes	1.01	J	Yes	1.53	J	Yes	2.04	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	247	J	Yes	247	J	Yes	230	J	Yes	230	J	Yes	230	J	Yes	1.98	J	Yes	2.15	J	Yes	2.32	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	269	J	Yes	269	J	Yes	320	J	Yes	320	J	Yes	320	J	Yes	0.676	J	Yes	1.08	J	Yes	1.48	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	339	J	Yes	339	J	Yes	360	J	Yes	360	J	Yes	360	J	Yes	0.917	J	Yes	1.64	J	Yes	2.37	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	83.6	J	Yes	83.6	J	Yes	95	J	Yes	95	J	Yes	95	J	Yes	0.539	J	Yes	0.884	J	Yes	1.23	J
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	144	J	Yes	144	J	Yes	170	J	Yes	170	J	Yes	170	J	Yes	2	U	No	2	U	No	2	U
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	454	J	Yes	454	J	Yes	490	J	Yes	500	J	Yes	500	J	Yes	1.3		Yes	8.75		Yes	16.2	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	81.9	J	Yes	81.9	J	Yes	120	J	Yes	120	J	Yes	120	J	Yes	0.174	J	Yes	1.47	J	Yes	2.77	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	23.9	J	Yes	23.9	J	Yes	62	J	Yes	62	J	Yes	62	J	Yes	0.087	J	Yes	0.422	J	Yes	0.757	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	164	J	Yes	164	J	Yes	160	J	Yes	160	J	Yes	160	J	Yes	2.9	J	Yes	5.6	J	Yes	8.3	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	263	J	Yes	263	J	Yes	310	J	Yes	310	J	Yes	310	J	Yes	0.624	J	Yes	4.92	J	Yes	9.22	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	197	J	Yes	197	J	Yes	230	J	Yes	230	J	Yes	230	J	Yes	1.08	J	Yes	1.63	J	Yes	2.18	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	203	J	Yes	203	J	Yes	190	J	Yes	190	J	Yes	190	J	Yes	0.592	J	Yes	1.2	J	Yes	1.81	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	255	J	Yes	255	J	Yes	270	J	Yes	270	J	Yes	270	J	Yes	0.736	J	Yes	1.62	J	Yes	2.5	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	220	J	Yes	220	J	Yes	210	J	Yes	210	J	Yes	210	J	Yes	1.69	J	Yes	1.9	J	Yes	2.11	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	240	J	Yes	240	J	Yes	260	J	Yes	260	J	Yes	260	J	Yes	1.2	J	Yes	1.57	J	Yes	1.93	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	218	J	Yes	218	J	Yes	170	J	Yes	170	J	Yes	170	J	Yes	0.818	J	Yes	1.46	J	Yes	2.09	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	204	J	Yes	204	J	Yes	190	J	Yes	190	J	Yes	190	J	Yes	1.23	J	Yes	1.5	J	Yes	1.77	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	258	J	Yes	258	J	Yes	300	J	Yes	300	J	Yes	300	J	Yes	0.527	J	Yes	0.937	J	Yes	1.34	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	339	J	Yes	339	J	Yes	350	J	Yes	350	J	Yes	350	J	Yes	1.69	J	Yes	2.07	J	Yes	2.46	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	78.7	J	Yes	78.7	J	Yes	88	J	Yes	88	J	Yes	88	J	Yes	0.441	J	Yes	0.753	J	Yes	1.07	J
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	90.1	J	Yes	90.1	J	Yes	45	J	Yes	45	J	Yes	45	J	Yes	0.483	J	Yes	0.863	J	Yes	1.24	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	30.4	J	Yes	30.4	J	Yes	19	J	Yes	19	J	Yes	19	J	Yes	0.14	J	Yes	0.305	J	Yes	0.47	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	18.1	J	Yes	18.1	J	Yes	17	J	Yes	17	J	Yes	17	J	Yes	0.102	J	Yes	0.197	J	Yes	0.291	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	14.1	J	Yes	14.1	J	Yes	14	J	Yes	14	J	Yes	14	J	Yes	0.0652	J	Yes	0.18	J	Yes	0.294	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	21.7	J	Yes	21.7	J	Yes	17	J	Yes	17	J	Yes	18	J	Yes	0.0995	J	Yes	0.196	J	Yes	0.293	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	11	J	Yes	11	J	Yes	19	J	Yes	19	J	Yes	19	J	Yes	0.0908	J	Yes	0.201	J	Yes	0.311	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	14.8	J	Yes	18.2	J	Yes	13	J	Yes	13	J	Yes	13	J	Yes	0.103	J	Yes	0.191	J	Yes	0.279	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	75.8	J	Yes	75.8	J	Yes	66	J	Yes	66	J	Yes	66	J	Yes	0.206	J	Yes	0.396	J	Yes	0.586	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	33.6	J	Yes	33.6	J	Yes	27	J	Yes	27	J	Yes	27	J	Yes	0.0807	J	Yes	0.221	J	Yes	0.361	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	80.7	J	Yes	80.7	J	Yes	59	J	Yes	59	J	Yes	59	J	Yes	0.147	J	Yes	0.402	J	Yes	0.657	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	99.4	J	Yes	99.4	J	Yes	41	J	Yes	41	J	Yes	41	J	Yes	0.552	J	Yes	0.607	J	Yes	0.662	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	108	J	Yes	108	J	Yes	76	J	Yes	76	J	Yes	76	J	Yes	0.271	J	Yes	0.446	J	Yes	0.621	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	80.3	J	Yes	80.3	J	Yes	38	J	Yes	38	J	Yes	38	J	Yes	0.175	J	Yes	0.34	J	Yes	0.505	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	207		Yes	207		Yes	150	J	Yes	150	J	Yes	150	J	Yes	0.29	J	Yes	1.02	J	Yes	1.74	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	198		Yes	198		Yes	160	J	Yes	160	J	Yes	160	J	Yes	1.03	J	Yes	1.29	J	Yes	1.54	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	292		Yes	292		Yes	210	J	Yes	210	J	Yes	210	J	Yes	0.468	J	Yes	1.59	J	Yes	2.71	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	267		Yes	267		Yes	250	J	Yes	250	J	Yes	250	J	Yes	1.67	J	Yes	2.67	J	Yes	3.67	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	322		Yes	322		Yes	250	J	Yes	250	J	Yes	250	J	Yes	0.619	J	Yes	1.15	J	Yes	1.69	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	123		Yes	123		Yes	110	J	Yes	110	J	Yes	110	J	Yes	0.203	J	Yes	0.693	J	Yes	1.18	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	373		Yes	373		Yes	240	J	Yes	240	J	Yes	240	J	Yes	1.79	J	Yes	2.59	J	Yes	3.39	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	289		Yes	289		Yes	250	J	Yes	250	J	Yes	250	J	Yes	0.567	J	Yes	2.07	J	Yes	3.57	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	91.6		Yes	91.6		Yes	77	J	Yes	77	J	Yes	77	J	Yes	0.148	J	Yes	0.563	J	Yes	0.978	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	78.6		Yes	78.6		Yes	65	J	Yes	65	J	Yes	65	J	Yes	0.17	J	Yes	1.06	J	Yes	1.94	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	88		Yes	88		Yes	85	J	Yes	85	J	Yes	85	J	Yes	2.52	J	Yes	2.52	J	Yes	2.52	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	209		Yes	209		Yes	150	J	Yes	150	J	Yes	150	J	Yes	0.364	J	Yes	0.959	J	Yes	1.55	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	141		Yes	141		Yes	130	J	Yes	130	J	Yes	130	J	Yes	0.289	J	Yes	0.924	J	Yes	1.56	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	197		Yes	197		Yes	160	J	Yes	160	J	Yes	160	J	Yes	1.03	J	Yes	1.26	J	Yes	1.49	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	249		Yes	249		Yes	210	J	Yes	210	J	Yes	210	J	Yes	0.637	J	Yes	1.53	J	Yes	2.43	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	293		Yes	293		Yes	230	J	Yes	230	J	Yes	230	J	Yes	0.463	J	Yes	1.18	J	Yes	1.89	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	124		Yes	124		Yes	94	J	Yes	95	J	Yes	95	J	Yes	0.156	J	Yes	0.566	J	Yes	0.976	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	247		Yes	247		Yes	200	J	Yes	200	J	Yes	200	J	Yes	0.382	J	Yes	1.03	J	Yes	1.67	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	169		Yes	169		Yes	87	J	Yes	87	J	Yes	87	J	Yes	0.269	J	Yes	0.769	J	Yes	1.27	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	303		Yes	303		Yes	280	J	Yes	280	J	Yes	280	J	Yes	1.55	J	Yes	2.04	J	Yes	2.54	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	265		Yes	265		Yes	180	J	Yes	180	J	Yes	180	J	Yes	0.815	J	Yes	1.57	J	Yes	2.32	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	165		Yes	165		Yes	130	J	Yes	130	J	Yes	130	J	Yes	0.756	J	Yes	1.06	J	Yes	1.37	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	266		Yes	266		Yes	190	J	Yes	190	J	Yes	190	J	Yes	0.435	J	Yes	1.39	J	Yes	2.35	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	228		Yes	228		Yes	210	J	Yes	210	J	Yes	210	J	Yes	1.24	J	Yes	2.13	J	Yes	3.02	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	281		Yes	281		Yes	220	J	Yes	220	J	Yes	220	J	Yes	0.753	J	Yes	1.19	J	Yes	1.63	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	176	J	Yes	176	J	Yes	290	J	Yes	290	J	Yes	290	J	Yes	0.288	J	Yes	0.738	J	Yes	1.19	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	245	J	Yes	245	J	Yes	68	J	Yes	170	J	Yes	280	J	Yes	1.13		Yes	2.18		Yes	3.23	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	363	J	Yes	363	J	Yes	390	J	Yes	390	J	Yes	390	J	Yes	1.14		Yes	1.84		Yes	2.53	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	374	J	Yes	374	J	Yes	200	J	Yes	200	J	Yes	200	J	Yes	0.781	J	Yes	1.12	J	Yes	1.45	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	33.6	J	Yes	33.6	J	Yes	60	J	Yes	60	J	Yes	60	J	Yes	0.0688	J	Yes	0.203	J	Yes	0.338	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	104	J	Yes	104	J	Yes	240	J	Yes	240	J	Yes	240	J	Yes	0.45	J	Yes	0.88	J	Yes	1.31	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	113	J	Yes	113	J	Yes	200	J	Yes	200	J	Yes	200	J	Yes	0.378	J	Yes	0.693	J	Yes	1.01	J

BERA Tissue Chemistry Data from Above Dundee Dam

					ID=DL)	trans-Nonachlor		
						µg/kg		
Species	Tissue Type	Event	Reach	Field Sample ID	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	Yes	16.3		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	Yes	20.6		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	Yes	21.1		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	Yes	21.8		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	Yes	26		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	Yes	29.6		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	Yes	15.1		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	Yes	18.8		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	Yes	27.2		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	Yes	9.4		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	Yes	15		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	Yes	21.2		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	Yes	30.5		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	Yes	25.3		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	Yes	25.3		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	Yes	35.7		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	Yes	20		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	Yes	20.9		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	Yes	27		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	Yes	11.6		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	No	11.2		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	Yes	45.5		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	Yes	2.7		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	Yes	1.2		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	Yes	13.5		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	Yes	25	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	Yes	15.7		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	Yes	20.9		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	Yes	25.5		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	Yes	23.4		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	Yes	25.6		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	Yes	32		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	Yes	17.3		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	Yes	19.8		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	Yes	27.1		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	Yes	10		Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	Yes	11.5		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	Yes	6.3	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	Yes	3.69	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	Yes	2.39	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	Yes	4.23	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	Yes	1.63	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	Yes	3.86	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes	14.1	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	Yes	7.29	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes	18.6	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes	20.5	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes	15.5	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	Yes	15.2	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes	45.8		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes	39.7		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes	55.1		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	Yes	50.7		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes	63.5		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes	27.6		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes	76.6		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes	53.8		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes	20.1		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes	14.9		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes	15.3		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes	40.3		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes	26.4		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes	35.3		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes	46.9		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes	60		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	Yes	27.1		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes	44.1		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes	37.1		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes	59.1		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes	56.6		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes	33.6		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes	50.5		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes	43.2		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes	54.3		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes	26.6	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes	26.4	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	Yes	53.6	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes	78.9	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	Yes	5.56	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	Yes	11.7	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	Yes	16.9	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	2,4'-DDD µg/kg			2,4'-DDE µg/kg			2,4'-DDT µg/kg			4,4'-DDD µg/kg			4,4'-DDE µg/kg		
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	1.83	J	Yes	0.418	J	Yes	0.817	J	Yes	25.4	J	Yes	66.5	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	2.4	J	Yes	1.2	J	Yes	1.9		Yes	40.7	J	Yes	188	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	1.8	J	Yes	0.91	J	Yes	0.58	J	Yes	38.5	J	Yes	140	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	3.21	J	Yes	1.1	J	Yes	4.69		Yes	49.4	J	Yes	254	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	2.97	J	Yes	0.69	J	Yes	2.1	J	Yes	41	J	Yes	112	J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	14.7		Yes	3	J	Yes	3.4		Yes	101		Yes	200	J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	1.8		Yes	0.374	J	Yes	0.499	J	Yes	12.4		Yes	46.2		Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	8.7		Yes	1.8	J	Yes	2	J	Yes	59.7		Yes	130	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.519	J	Yes	0.134	J	Yes	0.073	UJ	No	8.9		Yes	17.9		Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	8		Yes	3.4	J	Yes	1.02	J	Yes	39.6		Yes	68.2		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	14.5	J	Yes	6.2	J	Yes	1.5		Yes	64.6	J	Yes	137	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	12.9	J	Yes	6.4	J	Yes	1.1		Yes	59.6	J	Yes	144	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	13.3	J	Yes	5.7	J	Yes	1.6	U	No	58.4	J	Yes	151	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	1.1	J	Yes	0.447	J	Yes	0.11	U	No	4.3	J	Yes	12.3	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	1.3	J	Yes	0.632	J	Yes	0.13	J	Yes	4.9	J	Yes	14.4	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.924	J	Yes	0.44	J	Yes	0.15	U	No	3.8	J	Yes	10.1	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	9.3	J	Yes	4	J	Yes	0.94		Yes	41	J	Yes	88.9	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	8.1	J	Yes	4	J	Yes	0.7	J	Yes	37	J	Yes	90.7	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	8.08	J	Yes	3.5	J	Yes	0.49	U	No	35	J	Yes	91.5	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	13.1		Yes	3.4	J	Yes	3	J	Yes	34.5		Yes	101		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	15.8		Yes	4.8	J	Yes	3.7	J	Yes	50.5		Yes	132		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	12.1		Yes	4	J	Yes	3.4	J	Yes	35.5		Yes	159		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	9.7		Yes	2.5	J	Yes	2.6	J	Yes	32.9		Yes	73.3		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	14.5		Yes	4.1	J	Yes	4.9	J	Yes	46.8		Yes	161		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	16.5		Yes	4	J	Yes	3.8	J	Yes	41		Yes	136		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	3.2		Yes	0.62	J	Yes	0.51	J	Yes	8.1		Yes	19.8		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	12.6		Yes	3.2	J	Yes	3.3	J	Yes	36.1		Yes	99.3		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	2		Yes	0.57	J	Yes	0.43	J	Yes	5		Yes	15.3		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	2.2		Yes	0.74	J	Yes	0.51	UJ	No	6.5		Yes	18.2		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	2.2		Yes	0.77	J	Yes	0.7	J	Yes	4.9	U	No	26.1		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	2.3	U	No	0.57	J	Yes	0.38	UJ	No	5.7		Yes	13.3		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	2.2		Yes	0.64	J	Yes	0.707	J	Yes	6.9		Yes	25.7		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	4.8		Yes	0.844	J	Yes	0.9	J	Yes	7.9		Yes	25.5		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	14.5		Yes	3.9	J	Yes	3.1	UJ	No	39.9		Yes	116		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	2.3		Yes	0.55	J	Yes	0.62	UJ	No	5.8		Yes	18.8		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	8.9		Yes	2.3	J	Yes	2	J	Yes	23		Yes	68.9		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	10		Yes	3.2	J	Yes	2.3	J	Yes	33		Yes	87.4		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	8.3		Yes	2.8	J	Yes	2.4	J	Yes	23		Yes	108		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	6.2		Yes	1.7	J	Yes	1.6	J	Yes	22		Yes	48.8		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	9.6		Yes	2.7	J	Yes	3.2	J	Yes	31		Yes	107		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	12		Yes	2.7	J	Yes	2.6	J	Yes	28		Yes	91.6		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	7.9		Yes	2	J	Yes	0.95	J	Yes	21		Yes	60.2		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	8.3		Yes	2.1	J	Yes	2.1	J	Yes	23		Yes	65.7		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	8.5		Yes	2.5	J	Yes	0.51	J	Yes	35.2		Yes	59.5		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	7.6		Yes	1.5	J	Yes	0.8	J	Yes	31.2		Yes	57.3		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	2.8		Yes	0.81	J	Yes	0.25	U	No	16		Yes	29.6		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	11.8		Yes	2	J	Yes	2.6		Yes	57.5		Yes	131		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	6.2		Yes	1	J	Yes	1		Yes	30.3		Yes	45.3		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	2.1		Yes	0.542	J	Yes	0.12	U	No	6.8	U	No	11.2		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	1.9		Yes	0.45	J	Yes	0.19	U	No	7.9		Yes	14.9		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.84	U	No	0.3	UJ	No	0.17	U	No	2.6		Yes	6.2		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	2.3		Yes	0.365	J	Yes	0.491	J	Yes	11.4		Yes	27.1		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	1.6		Yes	0.26	J	Yes	0.307	J	Yes	7.6		Yes	12.4		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	5.6		Yes	1.6	J	Yes	0.31	J	Yes	21		Yes	38		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	5.6		Yes	1.1	J	Yes	0.55	J	Yes	23		Yes	42.1		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	1.8		Yes	0.52	J	Yes	0.11	U	No	10		Yes	19		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	8.7		Yes	1.5	J	Yes	1.9	J	Yes	42.6		Yes	97.4		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	4.3		Yes	0.69	J	Yes	0.71	J	Yes	21		Yes	31.7		Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	4,4'-DDT µg/kg			Aldrin µg/kg			alpha-BHC µg/kg			alpha-Chlordane µg/kg			beta-BHC µg/kg			cis-Nonachlor µg/kg			delta-BHC µg/kg			Dieldrin µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	8.74		Yes	0.13	J	Yes	0.045	U	No	81.7		Yes	0.089	J	Yes	21	J	Yes	0.053	U	No	15.1	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	3.2	J	Yes	0.031	J	Yes	0.03	U	No	61.9		Yes	0.037	U	No	22.7	J	Yes	0.036	U	No	12.4	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	15		Yes	0.099	J	Yes	0.069	U	No	81.7		Yes	0.082	U	No	52.7	J	Yes	0.082	U	No	17	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	24.9		Yes	0.1	J	Yes	0.025	U	No	120		Yes	0.1	J	Yes	58.1	J	Yes	0.03	U	No	27.7	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	14.7		Yes	0.196	J	Yes	0.032	U	No	127		Yes	0.14	J	Yes	36	J	Yes	0.038	U	No	24.1	
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	48.8		Yes	0.159	J	Yes	0.064	U	No	176	J	Yes	0.097	U	No	68.7		Yes	0.09	U	No	64.3	
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	6.9		Yes	0.013	U	No	0.06	U	No	22.9	J	Yes	0.092	U	No	9.1		Yes	0.085	U	No	8.6	
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	29		Yes	0.088	J	Yes	0.031	U	No	105	J	Yes	0.047	U	No	41		Yes	0.044	U	No	38	
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	2.1		Yes	0.0245	U	No	0.022	U	No	9.8		Yes	0.037	J	Yes	7.5		Yes	0.028	U	No	9.4	
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	0.35	J	Yes	0.112	U	No	0.055	J	Yes	57.1		Yes	0.09	J	Yes	14.8		Yes	0.058	U	No	22	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	7.5		Yes	0.115	J	Yes	0.045	J	Yes	73.7		Yes	0.089	J	Yes	36.7		Yes	0.05	U	No	31.6	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	8.9		Yes	0.0555	J	Yes	0.052	U	No	73.2		Yes	0.076	J	Yes	36.3		Yes	0.067	U	No	28.8	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	8.6		Yes	0.0656	J	Yes	0.064	U	No	69		Yes	0.09	U	No	35.7		Yes	0.083	U	No	34.8	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.8	J	Yes	0.023	J	Yes	0.038	U	No	5.5		Yes	0.053	U	No	2.6		Yes	0.049	U	No	2.9	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.81	J	Yes	0.0257	J	Yes	0.024	J	Yes	6.4		Yes	0.025	J	Yes	3.1		Yes	0.027	J	Yes	3.4	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.38	U	No	0.0252	J	Yes	0.061	U	No	4.9		Yes	0.086	U	No	2.2		Yes	0.08	U	No	3.1	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	4.9	J	Yes	0.0795	J	Yes	0.035	J	Yes	47		Yes	0.065	J	Yes	24		Yes	0.025	U	No	21	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	5.6	J	Yes	0.0433	J	Yes	0.025	J	Yes	46		Yes	0.055	J	Yes	23		Yes	0.031	J	Yes	18	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	5.1		Yes	0.0486	J	Yes	0.031	U	No	42		Yes	0.044	U	No	22		Yes	0.041	U	No	21	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	11.9		Yes	0.149	J	Yes	0.045	U	No	82.3		Yes	0.065	U	No	25.4		Yes	0.056	U	No	24.7	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	11.9		Yes	0.125	U	No	0.08	U	No	117		Yes	0.11	U	No	41.9		Yes	0.099	U	No	35.1	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	13.4		Yes	0.121	U	No	0.071	U	No	109		Yes	0.1	U	No	44.4		Yes	0.087	U	No	27.1	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	8.9		Yes	0.109	U	No	0.032	U	No	74.6		Yes	0.061	J	Yes	24.6		Yes	0.06	U	No	23.7	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	17		Yes	0.15	J	Yes	0.038	U	No	105		Yes	0.081	J	Yes	42.4		Yes	0.071	U	No	37.7	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	10.7		Yes	0.141	J	Yes	0.061	U	No	112		Yes	0.086	U	No	39.1		Yes	0.11	U	No	34.6	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	2.1	U	No	0.045	U	No	0.13	U	No	19.7		Yes	0.18	U	No	5.6		Yes	0.24	U	No	7.3	
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	20.4		Yes	0.135	J	Yes	0.091	J	Yes	79		Yes	0.081	U	No	28		Yes	0.11	U	No	28.5	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	2		Yes	0.0478	U	No	0.036	U	No	12.7		Yes	0.052	U	No	4		Yes	0.044	U	No	4.5	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	1.6		Yes	0.0356	U	No	0.062	U	No	16.9		Yes	0.089	U	No	5.2		Yes	0.077	U	No	5.1	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	2.4		Yes	0.012	U	No	0.041	U	No	18.5		Yes	0.06	U	No	6.8		Yes	0.051	U	No	5	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	1.9		Yes	0.0403	U	No	0.04	U	No	12.8		Yes	0.057	U	No	4		Yes	0.049	U	No	4.7	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	2.5		Yes	0.035	U	No	0.044	U	No	17.6		Yes	0.063	U	No	6.4		Yes	0.083	U	No	6.1	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	2.1		Yes	0.0437	U	No	0.038	U	No	24.3		Yes	0.054	U	No	8		Yes	0.071	U	No	8.6	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	11.4		Yes	0.171	J	Yes	0.064	U	No	98.3		Yes	0.091	U	No	35.3		Yes	0.12	U	No	32.3	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	3.4		Yes	0.039	U	No	0.066	U	No	15.6		Yes	0.093	U	No	5.1		Yes	0.12	U	No	4.9	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	8.2		Yes	0.102	J	Yes	0.021	U	No	56.2		Yes	0.03	U	No	17		Yes	0.026	U	No	17	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	7.9		Yes	0.045	U	No	0.036	U	No	77.8		Yes	0.051	U	No	28		Yes	0.045	U	No	23	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	9.2		Yes	0.0395	U	No	0.03	U	No	74.1		Yes	0.042	U	No	30		Yes	0.037	U	No	19	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	6		Yes	0.0405	U	No	0.018	U	No	49.3		Yes	0.048	J	Yes	16		Yes	0.028	U	No	16	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	11		Yes	0.098	J	Yes	0.02	U	No	70.4		Yes	0.061	J	Yes	28		Yes	0.038	U	No	25	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	7.2		Yes	0.0931	J	Yes	0.026	U	No	76.7		Yes	0.037	U	No	27		Yes	0.047	U	No	24	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	5.4		Yes	0.085	J	Yes	0.051	U	No	52.7		Yes	0.071	U	No	18		Yes	0.095	U	No	18	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	13		Yes	0.087	J	Yes	0.067	J	Yes	52.6		Yes	0.043	U	No	18		Yes	0.057	U	No	19	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	2.6		Yes	0.11	U	No	0.049	U	No	56.6	J	Yes	0.075	U	No	12.1		Yes	0.069	U	No	17.3	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	7.8		Yes	0.278	J	Yes	0.12	U	No	80.2	J	Yes	0.19	U	No	16.9		Yes	0.17	U	No	36.3	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	2.3		Yes	0.231	J	Yes	0.14	U	No	30.2	J	Yes	0.21	U	No	6.7		Yes	0.19	U	No	7	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	27.9		Yes	0.153	J	Yes	0.092	J	Yes	141	J	Yes	0.18	J	Yes	37		Yes	0.1	U	No	58.4	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	12.4		Yes	0.092	U	No	0.16	U	No	68.2	J	Yes	0.24	U	No	16.4		Yes	0.22	U	No	25	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.64	J	Yes	0.017	U	No	0.049	U	No	10.9	J	Yes	0.075	U	No	2.6		Yes	0.069	U	No	3.8	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	1.4	U	No	0.057	U	No	0.11	U	No	20.8	J	Yes	0.17	U	No	4.2		Yes	0.16	U	No	9.5	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.59	U	No	0.057	U	No	0.11	U	No	5.6	J	Yes	0.17	U	No	1.5		Yes	0.16	U	No	1.8	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	7.6		Yes	0.0533	U	No	0.051	U	No	32.1	J	Yes	0.077	U	No	7.6		Yes	0.072	U	No	13.6	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	3.7	U	No	0.0449	U	No	0.067	U	No	18.8	J	Yes	0.1	U	No	4		Yes	0.095	U	No	7.4	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	1.7	J	Yes	0.034	U	No	0.025	U	No	36.2	J	Yes	0.038	U	No	7.9		Yes	0.035	U	No	11	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	5.3		Yes	0.19	J	Yes	0.058	U	No	58.9	J	Yes	0.091	U	No	12		Yes	0.083	U	No	27	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	1.4		Yes	0.14	J	Yes	0.064	U	No	20	J	Yes	0.096	U	No	4.4		Yes	0.089	U	No	4.7	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	21		Yes	0.112	J	Yes	0.071	J	Yes	106	J	Yes	0.13	J	Yes	28		Yes	0.045	U	No	43.9	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	8		Yes	0.036	U	No	0.061	U	No	47.7	J	Yes	0.091	U	No	11		Yes	0.084	U	No	18	

BERA Tissue Chemistry Data from Above Dundee Dam

						Endosulfan I		
						µg/kg		
Species	Tissue Type	Event	Reach	Field Sample ID	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	Yes	0.22	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes	0.25	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes	0.41	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	Yes	0.38	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes	0.19	U	No
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes	0.87	J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	Yes	0.16	U	No
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes	0.5	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	Yes	0.43	J	Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	Yes	0.94	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes	2.1		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes	1.7	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes	1.7	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	Yes	0.29	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	Yes	0.24	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	Yes	0.48	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes	1.3		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes	1.1	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes	0.59	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	Yes	1.56	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes	1.1	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes	2.3	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	Yes	0.41	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	Yes	0.66	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes	0.51	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	Yes	0.24	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	Yes	0.38	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	Yes	0.26	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	Yes	0.49	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	Yes	0.48	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	Yes	0.49	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	Yes	0.11	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	Yes	0.21	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	Yes	0.42	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	Yes	0.38	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	Yes	1	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes	0.43	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes	0.8	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	Yes	0.22	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	Yes	0.22	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes	0.19	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes	0.16	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	Yes	0.19	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	Yes	0.23	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes	0.61	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes	0.44	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes	0.62	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	Yes	0.34	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	Yes	0.16	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	Yes	0.35	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	Yes	0.37	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	Yes	0.13	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	Yes	0.2	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	Yes	0.099	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes	0.26	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes	0.2	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes	0.23	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes	0.14	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	Endosulfan II µg/kg			Endosulfan sulfate µg/kg			Endrin µg/kg			Endrin aldehyde µg/kg			Endrin ketone µg/kg			gamma-BHC (Lindane) µg/kg			gamma-Chlordane µg/kg			Heptachlor µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.18	U	No	0.38	J	Yes	0.19	U	No	0.085	U	No	0.079	J	Yes	0.18	J	Yes	41.3	J	Yes	0.639	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	0.14	U	No	0.24	J	Yes	0.13	U	No	0.052	U	No	0.024	U	No	0.041	U	No	24.4	J	Yes	0.0834	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	0.45	U	No	0.927	J	Yes	0.15	U	No	0.14	J	Yes	0.081	J	Yes	0.077	U	No	22.9	J	Yes	0.132	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	0.21	U	No	0.925	J	Yes	0.2	U	No	0.086	U	No	0.076	J	Yes	0.18	J	Yes	43.3	J	Yes	0.17	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	0.1	U	No	0.669	J	Yes	0.24	U	No	0.11	U	No	0.04	J	Yes	0.264	J	Yes	66.5	J	Yes	0.985	J
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	1	U	No	1.01	J	Yes	0.383	J	Yes	0.15	U	No	0.13	U	No	0.151	J	Yes	52.6		Yes	0.18	J
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.29	U	No	0.036	U	No	0.045	U	No	0.026	U	No	0.13	U	No	0.076	U	No	6.3		Yes	0.0409	J
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	0.33	U	No	0.55	J	Yes	0.22	J	Yes	0.046	U	No	0.065	U	No	0.098	J	Yes	31		Yes	0.115	J
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.22	U	No	0.117	U	No	0.055	U	No	0.068	U	No	0.03	J	Yes	0.057	J	Yes	1.3		Yes	0.0458	UJ
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	0.81	U	No	0.298	J	Yes	0.157	U	No	0.14	U	No	0.18	U	No	0.186	J	Yes	22.8		Yes	0.098	UJ
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	1.5	U	No	0.491	J	Yes	0.2	J	Yes	0.064	U	No	0.19	J	Yes	0.164	J	Yes	22.2		Yes	0.169	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	1.6	U	No	0.499	J	Yes	0.21	J	Yes	0.16	U	No	0.16	U	No	0.13	J	Yes	22		Yes	0.185	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	1.4	U	No	0.445	J	Yes	0.23	J	Yes	0.2	U	No	0.2	U	No	0.159	J	Yes	20.1		Yes	0.188	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.53	U	No	0.071	J	Yes	0.032	U	No	0.03	U	No	0.092	U	No	0.039	U	No	1.6		Yes	0.0258	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.54	U	No	0.089	J	Yes	0.032	U	No	0.064	U	No	0.052	U	No	0.035	J	Yes	2		Yes	0.03	UJ
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.67	U	No	0.023	U	No	0.036	U	No	0.038	U	No	0.11	U	No	0.062	U	No	1.5		Yes	0.029	UJ
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	0.56	U	No	0.329	J	Yes	0.13	J	Yes	0.025	U	No	0.13	J	Yes	0.11	J	Yes	14		Yes	0.114	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	0.58	U	No	0.33	J	Yes	0.13	J	Yes	0.06	U	No	0.058	U	No	0.091	J	Yes	14		Yes	0.12	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	0.55	U	No	0.26	J	Yes	0.14	J	Yes	0.066	U	No	0.081	U	No	0.1	J	Yes	12		Yes	0.11	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	0.74	U	No	0.598	J	Yes	0.137	U	No	0.14	U	No	0.19	U	No	0.127	J	Yes	22		Yes	0.0909	UJ
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	0.94	U	No	0.762	J	Yes	0.33	U	No	0.3	J	Yes	0.19	U	No	0.177	J	Yes	26.3		Yes	0.111	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	1.2	U	No	0.48	J	Yes	0.14	U	No	0.14	U	No	0.22	U	No	0.109	J	Yes	25.3		Yes	0.108	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	0.32	U	No	0.498	J	Yes	0.37	U	No	0.14	U	No	0.147	J	Yes	0.097	J	Yes	16.7		Yes	0.0899	UJ
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	0.23	U	No	0.727	J	Yes	0.224	J	Yes	0.18	U	No	0.17	U	No	0.136	J	Yes	20.4		Yes	0.075	UJ
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	0.5	U	No	0.77	J	Yes	0.283	J	Yes	0.27	U	No	0.26	U	No	0.203	J	Yes	28.8		Yes	0.144	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	0.36	U	No	0.034	U	No	0.051	U	No	0.075	U	No	0.3	U	No	0.13	U	No	5.6		Yes	0.051	UJ
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	0.65	U	No	0.093	U	No	0.211	J	Yes	0.45	U	No	0.37	U	No	0.106	J	Yes	19.4		Yes	0.089	UJ
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.48	U	No	0.16	J	Yes	0.077	U	No	0.058	U	No	0.13	U	No	0.04	U	No	3.3		Yes	0.0316	UJ
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	1.1	U	No	0.196	J	Yes	0.063	U	No	0.056	U	No	0.17	U	No	0.055	U	No	3.6		Yes	0.0364	UJ
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.74	U	No	0.135	U	No	0.053	U	No	0.036	U	No	0.17	U	No	0.036	U	No	4.1		Yes	0.0382	UJ
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	1.2	U	No	0.115	U	No	0.055	U	No	0.092	U	No	0.21	U	No	0.034	U	No	3		Yes	0.0215	UJ
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.2	U	No	0.182	J	Yes	0.065	U	No	0.032	U	No	0.09	U	No	0.057	U	No	3.2		Yes	0.0315	UJ
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.22	U	No	0.025	U	No	0.1	U	No	0.13	U	No	0.19	U	No	0.069	J	Yes	5.8		Yes	0.0491	UJ
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.87	U	No	0.648	J	Yes	0.28	J	Yes	0.089	U	No	0.35	U	No	0.173	J	Yes	26.6		Yes	0.143	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.29	U	No	0.116	U	No	0.068	U	No	0.086	U	No	0.21	U	No	0.053	U	No	3.6		Yes	0.025	UJ
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	0.32	U	No	0.434	J	Yes	0.057	U	No	0.055	U	No	0.084	U	No	0.087	J	Yes	15		Yes	0.0343	UJ
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	0.5	U	No	0.54	J	Yes	0.11	U	No	0.19	J	Yes	0.091	U	No	0.12	J	Yes	17		Yes	0.0746	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	0.51	U	No	0.321	J	Yes	0.053	U	No	0.05	U	No	0.1	U	No	0.074	J	Yes	17		Yes	0.0737	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	0.34	U	No	0.318	J	Yes	0.12	U	No	0.06	U	No	0.13	J	Yes	0.064	J	Yes	11		Yes	0.031	UJ
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	0.11	U	No	0.511	J	Yes	0.15	J	Yes	0.061	U	No	0.069	U	No	0.093	J	Yes	14		Yes	0.029	UJ
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	0.19	U	No	0.47	J	Yes	0.189	J	Yes	0.11	U	No	0.12	U	No	0.15	J	Yes	20		Yes	0.096	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	0.29	U	No	0.28	J	Yes	0.13	J	Yes	0.04	U	No	0.16	U	No	0.11	J	Yes	14		Yes	0.075	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	0.25	U	No	0.051	U	No	0.14	J	Yes	0.15	U	No	0.15	U	No	0.073	J	Yes	13		Yes	0.031	UJ
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	0.23	U	No	0.032	U	No	0.089	J	Yes	0.044	U	No	0.12	U	No	0.111	J	Yes	29.8		Yes	0.0997	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	1.1	U	No	0.301	J	Yes	0.29	J	Yes	0.26	U	No	0.37	U	No	0.17	J	Yes	40.8		Yes	0.434	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	0.66	U	No	0.228	J	Yes	0.15	U	No	0.09	J	Yes	0.25	U	No	0.16	U	No	15.3		Yes	0.112	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	0.57	U	No	0.779	J	Yes	0.44	J	Yes	0.34	U	No	0.19	U	No	0.362	J	Yes	55.2		Yes	0.404	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	0.43	U	No	0.062	U	No	0.213	J	Yes	0.052	U	No	0.11	U	No	0.2	U	No	30.9		Yes	0.261	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.21	U	No	0.0075	U	No	0.065	J	Yes	0.088	U	No	0.25	U	No	0.049	U	No	5.5		Yes	0.0397	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.63	U	No	0.0739	J	Yes	0.082	J	Yes	0.14	U	No	0.27	U	No	0.097	U	No	11.1		Yes	0.098	UJ
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.83	U	No	0.011	U	No	0.054	J	Yes	0.086	U	No	0.35	U	No	0.093	U	No	3.3		Yes	0.0352	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.73	U	No	0.202	J	Yes	0.082	U	No	0.061	J	Yes	0.071	U	No	0.083	J	Yes	12.2		Yes	0.102	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.3	U	No	0.0866	J	Yes	0.07	J	Yes	0.033	U	No	0.072	U	No	0.08	U	No	8.5		Yes	0.054	UJ
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	0.11	U	No	0.011	U	No	0.078	J	Yes	0.032	U	No	0.089	U	No	0.072	J	Yes	19		Yes	0.0729	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	0.47	U	No	0.219	J	Yes	0.22	J	Yes	0.11	U	No	0.17	U	No	0.13	J	Yes	30.1		Yes	0.3	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	0.37	U	No	0.13	J	Yes	0.066	J	Yes	0.07	J	Yes	0.15	U	No	0.065	U	No	10		Yes	0.0787	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	0.31	U	No	0.593	J	Yes	0.31	J	Yes	0.13	J	Yes	0.076	U	No	0.27	J	Yes	41.3		Yes	0.306	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.19	U	No	0.054	J	Yes	0.15	J	Yes	0.022	U	No	0.047	U	No	0.075	U	No	22		Yes	0.16	J

BERA Tissue Chemistry Data from Above Dundee Dam

						Heptachlor epoxide			Hexachlorobenzene			Methoxychlor			Oxychlordane			Total 2,4' and 4,4' DDD			Total 2,4' and 4,4' DDD (ND=0.5DL)			Total 2,4' and 4,4' DDD (ND=DL)			Total
						µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			
Species	Tissue Type	Event	Reach	Field Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	Yes	8.01		Yes	1.03		Yes	0.055	U	No	17.7		Yes	27	J	Yes	27	J	Yes	27	J	Yes	67
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes	5.1		Yes	1.1	J	Yes	0.028	U	No	14.3		Yes	43	J	Yes	43	J	Yes	43	J	Yes	190
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes	7.7		Yes	1.43	J	Yes	0.032	U	No	23.9		Yes	41	J	Yes	41	J	Yes	41	J	Yes	63
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	Yes	12.9		Yes	1.96	J	Yes	0.028	U	No	27.4		Yes	53	J	Yes	53	J	Yes	53	J	Yes	260
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes	13.2		Yes	1.46		Yes	0.037	U	No	28.1		Yes	44	J	Yes	44	J	Yes	44	J	Yes	110
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes	26.8		Yes	2.2		Yes	0.1	U	No	45.8	J	Yes	120		Yes	120		Yes	120		Yes	200
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	Yes	3.6		Yes	0.339	J	Yes	0.169	U	No	5.9	J	Yes	14		Yes	14		Yes	14		Yes	47
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes	16		Yes	1.3	J	Yes	0.066	U	No	27	J	Yes	71		Yes	71		Yes	71		Yes	130
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	No	4.3		Yes	0.363	J	Yes	0.214	J	Yes	13.2	J	Yes	9.4	J	Yes	9.4	J	Yes	9.4	J	Yes	18
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	No	10		Yes	1.9		Yes	0.38	U	No	10.3	J	Yes	48		Yes	48		Yes	48		Yes	72
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes	13.3		Yes	1.8		Yes	0.35	U	No	37.2	J	Yes	79	J	Yes	79	J	Yes	79	J	Yes	140
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes	11.5		Yes	2.2		Yes	0.24	U	No	35.5	J	Yes	73	J	Yes	73	J	Yes	73	J	Yes	150
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes	13.6		Yes	2		Yes	0.25	U	No	39	J	Yes	72	J	Yes	72	J	Yes	72	J	Yes	160
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	Yes	1.2		Yes	0.21	J	Yes	0.15	U	No	2.9	J	Yes	5.4	J	Yes	5.4	J	Yes	5.4	J	Yes	13
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	No	1.2		Yes	0.389	J	Yes	0.08	U	No	3.3	J	Yes	6.2	J	Yes	6.2	J	Yes	6.2	J	Yes	15
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	No	1.2		Yes	0.425	J	Yes	0.1	U	No	2.8	J	Yes	4.7	J	Yes	4.7	J	Yes	4.7	J	Yes	11
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes	8.6		Yes	1.2	J	Yes	0.14	U	No	24	J	Yes	51	J	Yes	51	J	Yes	51	J	Yes	91
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes	7.3		Yes	1.5	J	Yes	0.087	U	No	22	J	Yes	46	J	Yes	46	J	Yes	46	J	Yes	95
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes	8.4		Yes	1.3	J	Yes	0.093	U	No	24	J	Yes	44	J	Yes	44	J	Yes	44	J	Yes	97
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	No	9.7		Yes	1.4		Yes	0.58	J	Yes	13.2	J	Yes	48		Yes	48		Yes	48		Yes	100
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes	14.6		Yes	1.8		Yes	0.26	U	No	22.1	J	Yes	66		Yes	66		Yes	66		Yes	140
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes	10.6		Yes	1.1		Yes	0.24	U	No	19.3	J	Yes	48		Yes	48		Yes	48		Yes	160
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	No	9.3		Yes	1.2		Yes	0.204	J	Yes	15.1	J	Yes	43		Yes	43		Yes	43		Yes	76
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	No	13.4		Yes	1.5		Yes	0.45	J	Yes	22.4	J	Yes	61		Yes	61		Yes	61		Yes	170
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes	16.3		Yes	1.5		Yes	0.23	U	No	19.7	J	Yes	58		Yes	58		Yes	58		Yes	140
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	No	2.7		Yes	0.369	J	Yes	0.12	U	No	3.2	J	Yes	11		Yes	11		Yes	11		Yes	20
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	No	10.1		Yes	1.2		Yes	0.35	J	Yes	13.9	J	Yes	49		Yes	49		Yes	49		Yes	100
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	No	1.7		Yes	0.289	J	Yes	0.097	U	No	2	J	Yes	7		Yes	7		Yes	7		Yes	16
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	No	2.2		Yes	0.326	J	Yes	0.084	U	No	3	J	Yes	8.7		Yes	8.7		Yes	8.7		Yes	19
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	No	1.9		Yes	0.235	J	Yes	0.17	U	No	2.9	J	Yes	2.2		Yes	4.7		Yes	7.1		Yes	27
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	No	1.8		Yes	0.261	J	Yes	0.21	U	No	2.7	J	Yes	5.7		Yes	6.9		Yes	8		Yes	14
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	No	2.3		Yes	0.255	J	Yes	0.054	U	No	3.8	J	Yes	9.1		Yes	9.1		Yes	9.1		Yes	26
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	No	3.7		Yes	0.365	J	Yes	0.17	U	No	4.2	J	Yes	13		Yes	13		Yes	13		Yes	26
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	Yes	13.5		Yes	1.6		Yes	0.2	U	No	17.9	J	Yes	54		Yes	54		Yes	54		Yes	120
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	No	1.9		Yes	0.255	J	Yes	0.1	U	No	2.9	J	Yes	8.1		Yes	8.1		Yes	8.1		Yes	19
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	No	6.7		Yes	0.98	J	Yes	0.38	J	Yes	9	J	Yes	33		Yes	33		Yes	33		Yes	69
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes	9.7		Yes	1.2	J	Yes	0.096	U	No	15	J	Yes	44		Yes	44		Yes	44		Yes	93
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes	7.2		Yes	0.77	J	Yes	0.11	U	No	13	J	Yes	30		Yes	31		Yes	32		Yes	110
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	No	6.2		Yes	0.82	J	Yes	0.16	J	Yes	10	J	Yes	28		Yes	28		Yes	29		Yes	51
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	No	9		Yes	1	J	Yes	0.28	J	Yes	15	J	Yes	40		Yes	40		Yes	40		Yes	110
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes	11		Yes	1	J	Yes	0.1	U	No	13	J	Yes	40		Yes	40		Yes	40		Yes	94
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes	7.2		Yes	0.89	J	Yes	0.077	U	No	9.4	J	Yes	29		Yes	29		Yes	29		Yes	62
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	No	6.7		Yes	0.81	J	Yes	0.22	J	Yes	9.3	J	Yes	32		Yes	32		Yes	32		Yes	66
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	Yes	7.5		Yes	1.5		Yes	0.621	U	No	6.9	J	Yes	44		Yes	44		Yes	44		Yes	62
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes	12.1		Yes	2.9		Yes	0.33	U	No	11.8	J	Yes	39		Yes	39		Yes	39		Yes	59
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes	2.7		Yes	1.1		Yes	0.22	U	No	3.8	J	Yes	19		Yes	19		Yes	19		Yes	30
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes	24.5		Yes	3.1		Yes	0.3	U	No	27.8	J	Yes	69		Yes	69		Yes	69		Yes	130
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	Yes	10.3		Yes	2.3		Yes	0.14	U	No	16.7	J	Yes	37		Yes	37		Yes	37		Yes	46
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	Yes	1.6		Yes	0.329	J	Yes	0.14	U	No	1.4	J	Yes	2.1		Yes	5.5		Yes	8.9		Yes	12
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	No	3		Yes	0.617	J	Yes	0.25	U	No	3.1	J	Yes	9.8		Yes	9.8		Yes	9.8		Yes	15
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	Yes	0.56	J	Yes	0.219	J	Yes	0.28	U	No	0.863	J	Yes	2.6		Yes	3		Yes	3.4		Yes	6.2
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	Yes	5.2		Yes	0.67	J	Yes	0.11	U	No	5.7	J	Yes	14		Yes	14		Yes	14		Yes	27
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	No	2.8		Yes	0.553	J	Yes	0.062	U	No	4.1	J	Yes	9.2		Yes	9.2		Yes	9.2		Yes	13
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	Yes	4.9		Yes	0.98	J	Yes	0.2	U	No	4.4	J	Yes	25		Yes	27		Yes	28		Yes	40
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes	8.8		Yes	2.1	J	Yes	0.15	U	No	8.7	J	Yes	29		Yes	29		Yes	29		Yes	43
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes	1.8	J	Yes	0.72	J	Yes	0.12	U	No	2.5	J	Yes	12		Yes	12		Yes	12		Yes	20
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes	18		Yes	2.3	J	Yes	0.12	U	No	21	J	Yes	51		Yes	51		Yes	51		Yes	97
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes	7.2		Yes	1.6	J	Yes	0.054	U	No	11	J	Yes	25		Yes	25		Yes	25		Yes	32

BERA Tissue Chemistry Data from Above Dundee Dam

					2,4' and 4,4' DDE		Total 2,4' and 4,4' DDE (ND=0.5DL)		
					µg/kg		µg/kg		
Species	Tissue Type	Event	Reach	Field Sample ID	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	J	Yes	67	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	J	Yes	190	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	J	Yes	140	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	J	Yes	260	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	J	Yes	110	J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	J	Yes	200	J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	J	Yes	47	J	Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	J	Yes	130	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	J	Yes	18	J	Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	J	Yes	72	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	J	Yes	140	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	J	Yes	150	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	J	Yes	160	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	J	Yes	13	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	J	Yes	15	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	J	Yes	11	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	J	Yes	91	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	J	Yes	95	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	J	Yes	97	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	J	Yes	100	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	J	Yes	140	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	J	Yes	160	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	J	Yes	76	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	J	Yes	170	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	J	Yes	140	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	J	Yes	20	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	J	Yes	100	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	J	Yes	16	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	J	Yes	19	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	J	Yes	27	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	J	Yes	14	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	J	Yes	26	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	J	Yes	26	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	J	Yes	120	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	J	Yes	19	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	J	Yes	69	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	J	Yes	93	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	J	Yes	110	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	J	Yes	51	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	J	Yes	110	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	J	Yes	94	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	J	Yes	62	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	J	Yes	66	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	J	Yes	62	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	J	Yes	59	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	J	Yes	30	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	J	Yes	130	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	J	Yes	46	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	J	Yes	12	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	J	Yes	15	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	J	Yes	6.4	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	J	Yes	27	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	J	Yes	13	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	J	Yes	40	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	J	Yes	43	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	J	Yes	20	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	J	Yes	97	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	J	Yes	32	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	Total 2,4' and 4,4' DDE (ND=DL) µg/kg			Total 2,4' and 4,4' DDT µg/kg			Total 2,4' and 4,4' DDT (ND=0.5DL) µg/kg			Total 2,4' and 4,4' DDT (ND=DL) µg/kg			Total 4,4' DDT µg/kg			Total 4,4' DDT (ND=0.5DL) µg/kg			Total 4,4' DDT (ND=DL) µg/kg			Total Chlordar µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	67	J	Yes	9.6	J	Yes	9.6	J	Yes	9.6	J	Yes	100	J	Yes	100	J	Yes	100	J	Yes	199	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	190	J	Yes	5.1	J	Yes	5.1	J	Yes	5.1	J	Yes	230	J	Yes	230	J	Yes	230	J	Yes	145	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	210	J	Yes	15	J	Yes	15	J	Yes	15	J	Yes	120	J	Yes	190	J	Yes	260	J	Yes	203	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	260	J	Yes	30		Yes	30		Yes	30		Yes	330	J	Yes	330	J	Yes	330	J	Yes	293	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	110	J	Yes	17	J	Yes	17	J	Yes	17	J	Yes	160	J	Yes	160	J	Yes	160	J	Yes	325	J
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	200	J	Yes	52		Yes	52		Yes	52		Yes	350	J	Yes	350	J	Yes	350	J	Yes	398	J
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	47	J	Yes	7.4	J	Yes	7.4	J	Yes	7.4	J	Yes	66		Yes	66		Yes	66		Yes	50.8	J
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	130	J	Yes	31	J	Yes	31	J	Yes	31	J	Yes	220	J	Yes	220	J	Yes	220	J	Yes	236	J
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	18	J	Yes	2.1	J	Yes	2.1	J	Yes	2.2	J	Yes	29		Yes	29		Yes	29		Yes	33.2	J
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	72	J	Yes	1.4	J	Yes	1.4	J	Yes	1.4	J	Yes	110	J	Yes	110	J	Yes	110	J	Yes	126	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	140	J	Yes	9		Yes	9		Yes	9		Yes	210	J	Yes	210	J	Yes	210	J	Yes	192	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	150	J	Yes	10		Yes	10		Yes	10		Yes	210	J	Yes	210	J	Yes	210	J	Yes	188	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	160	J	Yes	8.6		Yes	9.4		Yes	10		Yes	220	J	Yes	220	J	Yes	220	J	Yes	184	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	13	J	Yes	0.8	J	Yes	0.86	J	Yes	0.91	J	Yes	17	J	Yes	17	J	Yes	17	J	Yes	14.3	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	15	J	Yes	0.94	J	Yes	0.94	J	Yes	0.94	J	Yes	20	J	Yes	20	J	Yes	20	J	Yes	16.7	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	11	J	Yes	0.38	U	No	0.38	U	No	0.38	U	No	14	J	Yes	14	J	Yes	14	J	Yes	12.8	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	91	J	Yes	5.8	J	Yes	5.9	J	Yes	5.9	J	Yes	140	J	Yes	140	J	Yes	140	J	Yes	123	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	95	J	Yes	6.3	J	Yes	6.3	J	Yes	6.3	J	Yes	130	J	Yes	130	J	Yes	130	J	Yes	118	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	97	J	Yes	5.1		Yes	5.5		Yes	5.9		Yes	130	J	Yes	130	J	Yes	130	J	Yes	112	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	100	J	Yes	15	J	Yes	15	J	Yes	15	J	Yes	150		Yes	150		Yes	150		Yes	165	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	140	J	Yes	16	J	Yes	16	J	Yes	16	J	Yes	190		Yes	190		Yes	190		Yes	234	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	160	J	Yes	17	J	Yes	17	J	Yes	17	J	Yes	210		Yes	210		Yes	210		Yes	223	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	76	J	Yes	12	J	Yes	12	J	Yes	12	J	Yes	120		Yes	120		Yes	120		Yes	147	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	170	J	Yes	22	J	Yes	22	J	Yes	22	J	Yes	220		Yes	220		Yes	220		Yes	209	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	140	J	Yes	15	J	Yes	15	J	Yes	15	J	Yes	190		Yes	190		Yes	190		Yes	224	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	20	J	Yes	0.51	J	Yes	1.6	J	Yes	2.6	J	Yes	28		Yes	29		Yes	30		Yes	39.6	J
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	100	J	Yes	24	J	Yes	24	J	Yes	24	J	Yes	160		Yes	160		Yes	160		Yes	158	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	16	J	Yes	2.4	J	Yes	2.4	J	Yes	2.4	J	Yes	22		Yes	22		Yes	22		Yes	25.2	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	19	J	Yes	1.6	J	Yes	1.9	J	Yes	2.1	J	Yes	26		Yes	26		Yes	26		Yes	32.3	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	27	J	Yes	3.1	J	Yes	3.1	J	Yes	3.1	J	Yes	29		Yes	31		Yes	33		Yes	36.3	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	14	J	Yes	1.9	J	Yes	2.1	J	Yes	2.3	J	Yes	21		Yes	21		Yes	21		Yes	25.5	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	26	J	Yes	3.2	J	Yes	3.2	J	Yes	3.2	J	Yes	35		Yes	35		Yes	35		Yes	34.1	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	26	J	Yes	3	J	Yes	3	J	Yes	3	J	Yes	36		Yes	36		Yes	36		Yes	48.3	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	120	J	Yes	11	J	Yes	13	J	Yes	15	J	Yes	170		Yes	170		Yes	170		Yes	206	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	19	J	Yes	3.4	J	Yes	3.7	J	Yes	4	J	Yes	28		Yes	28		Yes	28		Yes	30.5	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	69	J	Yes	10	J	Yes	10	J	Yes	10	J	Yes	100		Yes	100		Yes	100		Yes	113	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	93	J	Yes	10	J	Yes	10	J	Yes	11	J	Yes	130		Yes	130		Yes	130		Yes	155	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	110	J	Yes	12	J	Yes	12	J	Yes	12	J	Yes	140		Yes	140		Yes	140		Yes	151	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	51	J	Yes	7.9	J	Yes	8	J	Yes	8	J	Yes	80		Yes	80		Yes	80		Yes	97.3	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	110	J	Yes	15	J	Yes	15	J	Yes	15	J	Yes	150		Yes	150		Yes	150		Yes	140	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	94	J	Yes	10	J	Yes	10	J	Yes	10	J	Yes	130		Yes	130		Yes	130		Yes	153	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	62	J	Yes	4.9	J	Yes	6.4	J	Yes	7.8	J	Yes	88		Yes	88		Yes	89		Yes	109	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	66	J	Yes	15	J	Yes	16	J	Yes	16	J	Yes	100		Yes	100		Yes	100		Yes	105	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	62	J	Yes	3.1	J	Yes	3.1	J	Yes	3.1	J	Yes	97		Yes	97		Yes	97		Yes	134	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	59	J	Yes	8.6	J	Yes	8.6	J	Yes	8.6	J	Yes	96		Yes	96		Yes	96		Yes	190	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	30	J	Yes	2.3		Yes	2.4		Yes	2.6		Yes	48		Yes	48		Yes	48		Yes	71.3	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	130	J	Yes	31		Yes	31		Yes	31		Yes	220		Yes	220		Yes	220		Yes	313	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	46	J	Yes	13		Yes	13		Yes	13		Yes	88		Yes	88		Yes	88		Yes	162	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	12	J	Yes	0.64	J	Yes	0.7	J	Yes	0.76	J	Yes	12	J	Yes	15	J	Yes	19	J	Yes	26.3	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	15	J	Yes	1.4	U	No	1.4	U	No	1.4	U	No	23		Yes	24		Yes	24		Yes	49.4	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	6.5	J	Yes	0.59	U	No	0.59	U	No	0.59	U	No	8.8		Yes	9.1		Yes	9.4		Yes	14.7	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	27	J	Yes	8.1	J	Yes	8.1	J	Yes	8.1	J	Yes	46		Yes	46		Yes	46		Yes	69.4	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	13	J	Yes	0.31	J	Yes	2.2	J	Yes	4	J	Yes	20		Yes	22		Yes	24		Yes	43.3	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	40	J	Yes	2	J	Yes	2	J	Yes	2.1	J	Yes	59	J	Yes	60	J	Yes	62	J	Yes	86	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	43	J	Yes	5.8	J	Yes	5.8	J	Yes	5.8	J	Yes	70		Yes	70		Yes	70		Yes	140	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	20	J	Yes	1.4		Yes	1.5		Yes	1.6		Yes	31		Yes	31		Yes	31		Yes	46.8	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	97	J	Yes	24	J	Yes	24	J	Yes	24	J	Yes	160		Yes	160		Yes	160		Yes	234	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	32	J	Yes	7.7	J	Yes	8.5	J	Yes	9.3	J	Yes	60		Yes	61		Yes	62		Yes	113	J

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	e Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	Total Chlordane (ND=0.5DL) µg/kg			Total Chlordane (ND=DL) µg/kg			Total DDx µg/kg			Total DDx (ND=0.5DL) µg/kg			Total DDx (ND=DL) µg/kg			Total Endosulfan µg/kg			Total Endosulfan (ND=0.5DL) µg/kg			Total Endosulfan (N µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	199	J	Yes	199	J	Yes	100	J	Yes	100	J	Yes	100	J	Yes	0.38	J	Yes	0.58	J	Yes	0.78	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	145	J	Yes	145	J	Yes	240	J	Yes	240	J	Yes	240	J	Yes	0.24	J	Yes	0.621	J	Yes	1	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	203	J	Yes	203	J	Yes	120	J	Yes	190	J	Yes	270	J	Yes	0.927	J	Yes	1.79	J	Yes	2.66	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	293	J	Yes	293	J	Yes	340	J	Yes	340	J	Yes	340	J	Yes	0.925	J	Yes	1.52	J	Yes	2.1	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	325	J	Yes	325	J	Yes	170	J	Yes	170	J	Yes	170	J	Yes	0.669	J	Yes	0.969	J	Yes	1.26	J
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	398	J	Yes	398	J	Yes	370	J	Yes	370	J	Yes	370	J	Yes	1.88	J	Yes	2.38	J	Yes	2.88	J
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	50.8	J	Yes	50.8	J	Yes	68	J	Yes	68	J	Yes	68	J	Yes	0.29	U	No	0.29	U	No	0.29	U
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	236	J	Yes	236	J	Yes	230	J	Yes	230	J	Yes	230	J	Yes	1.1	J	Yes	1.3	J	Yes	1.6	J
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	33.2	J	Yes	33.2	J	Yes	30	J	Yes	30	J	Yes	30	J	Yes	0.43	J	Yes	0.599	J	Yes	0.767	J
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	126	J	Yes	126	J	Yes	120	J	Yes	120	J	Yes	120	J	Yes	0.298	J	Yes	1.17	J	Yes	2.05	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	192	J	Yes	192	J	Yes	230	J	Yes	230	J	Yes	230	J	Yes	2.59	J	Yes	3.34	J	Yes	4.09	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	188	J	Yes	188	J	Yes	230	J	Yes	230	J	Yes	230	J	Yes	2.2	J	Yes	3	J	Yes	3.8	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	184	J	Yes	184	J	Yes	240	J	Yes	240	J	Yes	240	J	Yes	0.445	J	Yes	2	J	Yes	3.55	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	14.3	J	Yes	14.3	J	Yes	19	J	Yes	19	J	Yes	19	J	Yes	0.071	J	Yes	0.481	J	Yes	0.891	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	16.7	J	Yes	16.7	J	Yes	22	J	Yes	22	J	Yes	22	J	Yes	0.089	J	Yes	0.479	J	Yes	0.869	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	12.8	J	Yes	12.8	J	Yes	15	J	Yes	16	J	Yes	16	J	Yes	0.67	U	No	0.67	U	No	0.67	U
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	123	J	Yes	123	J	Yes	150	J	Yes	150	J	Yes	150	J	Yes	1.62	J	Yes	2.24	J	Yes	2.86	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	118	J	Yes	118	J	Yes	140	J	Yes	140	J	Yes	140	J	Yes	1.33	J	Yes	1.96	J	Yes	2.6	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	112	J	Yes	112	J	Yes	150	J	Yes	150	J	Yes	150	J	Yes	0.4	J	Yes	1.3	J	Yes	2.2	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	165	J	Yes	165	J	Yes	170	J	Yes	170	J	Yes	170	J	Yes	2.16	J	Yes	2.53	J	Yes	2.9	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	234	J	Yes	234	J	Yes	220	J	Yes	220	J	Yes	220	J	Yes	0.762	J	Yes	1.78	J	Yes	2.8	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	223	J	Yes	223	J	Yes	230	J	Yes	230	J	Yes	230	J	Yes	0.48	J	Yes	2.23	J	Yes	3.98	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	147	J	Yes	147	J	Yes	130	J	Yes	130	J	Yes	130	J	Yes	0.498	J	Yes	0.863	J	Yes	1.23	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	209	J	Yes	209	J	Yes	250	J	Yes	250	J	Yes	250	J	Yes	0.727	J	Yes	1.17	J	Yes	1.62	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	224	J	Yes	224	J	Yes	210	J	Yes	210	J	Yes	210	J	Yes	0.77	J	Yes	1.28	J	Yes	1.78	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	39.6	J	Yes	39.6	J	Yes	32	J	Yes	33	J	Yes	34	J	Yes	0.36	U	No	0.36	U	No	0.36	U
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	158	J	Yes	158	J	Yes	170	J	Yes	170	J	Yes	170	J	Yes	0.65	U	No	0.65	U	No	0.65	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	25.2	J	Yes	25.2	J	Yes	25	J	Yes	25	J	Yes	25	J	Yes	0.16	J	Yes	0.53	J	Yes	0.9	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	32.3	J	Yes	32.3	J	Yes	29	J	Yes	29	J	Yes	30	J	Yes	0.196	J	Yes	0.991	J	Yes	1.79	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	36.3	J	Yes	36.3	J	Yes	32	J	Yes	35	J	Yes	37	J	Yes	0.74	U	No	0.74	U	No	0.74	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	25.5	J	Yes	25.5	J	Yes	21	J	Yes	23	J	Yes	24	J	Yes	1.2	U	No	1.2	U	No	1.2	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	34.1	J	Yes	34.1	J	Yes	39	J	Yes	39	J	Yes	39	J	Yes	0.182	J	Yes	0.337	J	Yes	0.492	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	48.3	J	Yes	48.3	J	Yes	42	J	Yes	42	J	Yes	42	J	Yes	0.22	U	No	0.22	U	No	0.22	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	206	J	Yes	206	J	Yes	190	J	Yes	190	J	Yes	190	J	Yes	0.648	J	Yes	1.29	J	Yes	1.94	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	30.5	J	Yes	30.5	J	Yes	31	J	Yes	31	J	Yes	31	J	Yes	0.38	U	No	0.38	U	No	0.38	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	113	J	Yes	113	J	Yes	120	J	Yes	120	J	Yes	120	J	Yes	1.41	J	Yes	1.78	J	Yes	2.15	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	155	J	Yes	155	J	Yes	150	J	Yes	150	J	Yes	150	J	Yes	0.54	J	Yes	1.47	J	Yes	2.4	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	151	J	Yes	151	J	Yes	150	J	Yes	150	J	Yes	160	J	Yes	0.44	J	Yes	1.5	J	Yes	2.6	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	97.3	J	Yes	97.3	J	Yes	85	J	Yes	86	J	Yes	87	J	Yes	0.54	J	Yes	0.76	J	Yes	0.97	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	140	J	Yes	140	J	Yes	170	J	Yes	170	J	Yes	170	J	Yes	0.511	J	Yes	0.84	J	Yes	1.17	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	153	J	Yes	153	J	Yes	140	J	Yes	140	J	Yes	140	J	Yes	0.5	J	Yes	0.81	J	Yes	1.1	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	109	J	Yes	109	J	Yes	98	J	Yes	99	J	Yes	100	J	Yes	0.38	J	Yes	0.65	J	Yes	0.92	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	105	J	Yes	105	J	Yes	110	J	Yes	110	J	Yes	110	J	Yes	0.27	U	No	0.27	U	No	0.27	U
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	134	J	Yes	134	J	Yes	110	J	Yes	110	J	Yes	110	J	Yes	0.23	U	No	0.23	U	No	0.23	U
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	190	J	Yes	190	J	Yes	110	J	Yes	110	J	Yes	110	J	Yes	0.301	J	Yes	1.16	J	Yes	2.01	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	71.3	J	Yes	71.3	J	Yes	52	J	Yes	52	J	Yes	52	J	Yes	0.228	J	Yes	0.778	J	Yes	1.33	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	313	J	Yes	313	J	Yes	230	J	Yes	230	J	Yes	230	J	Yes	0.779	J	Yes	1.37	J	Yes	1.97	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	162	J	Yes	162	J	Yes	96	J	Yes	96	J	Yes	96	J	Yes	0.43	U	No	0.43	U	No	0.43	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	26.3	J	Yes	26.3	J	Yes	14	J	Yes	18	J	Yes	21	J	Yes	0.21	U	No	0.21	U	No	0.21	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	49.4	J	Yes	49.4	J	Yes	25	J	Yes	26	J	Yes	27	J	Yes	0.0739	J	Yes	0.564	J	Yes	1.05	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	14.7	J	Yes	14.7	J	Yes	8.8	J	Yes	9.8	J	Yes	11	J	Yes	0.83	U	No	0.83	U	No	0.83	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	69.4	J	Yes	69.4	J	Yes	49	J	Yes	49	J	Yes	49	J	Yes	0.202	J	Yes	0.632	J	Yes	1.06	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	43.3	J	Yes	43.3	J	Yes	22	J	Yes	24	J	Yes	26	J	Yes	0.0866	J	Yes	0.337	J	Yes	0.587	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	86	J	Yes	86	J	Yes	67	J	Yes	69	J	Yes	70	J	Yes	0.11	U	No	0.11	U	No	0.11	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	140	J	Yes	140	J	Yes	79	J	Yes	80	J	Yes	80	J	Yes	0.219	J	Yes	0.946	J	Yes	1.67	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	46.8	J	Yes	46.8	J	Yes	33	J	Yes	34	J	Yes	34	J	Yes	0.31	J	Yes	0.62	J	Yes	0.93	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	234	J	Yes	234	J	Yes	170	J	Yes	170	J	Yes	170	J	Yes	0.593	J	Yes	1.13	J	Yes	1.68	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	113	J	Yes	113	J	Yes	65	J	Yes	66	J	Yes	67	J	Yes	0.16	J	Yes	0.27	J	Yes	0.37	J

BERA Tissue Chemistry Data from Above Dundee Dam

					D=DL)	trans-Nonachlor		
						µg/kg		
Species	Tissue Type	Event	Reach	Field Sample ID	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	Yes	37.4	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes	22	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes	22	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	Yes	43.3	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes	67.3	J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes	55.1		Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	No	6.6		Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes	32		Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	Yes	1.4		Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	Yes	20.5		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes	22.4		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes	20.9		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes	20		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	Yes	1.7		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	Yes	1.9		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	No	1.4		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes	14		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes	13		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes	12		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	Yes	21.7		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes	26.2		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes	25.4		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	Yes	16		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	Yes	18.7		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes	23.9		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	No	5.5		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	No	17.9		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	Yes	3.2		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	Yes	3.6		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	No	4		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	No	3		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	Yes	3.1		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	No	6		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	Yes	27.9		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	No	3.3		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	Yes	15		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes	17		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes	17		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	Yes	11		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	Yes	13		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes	17		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes	15		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	No	12		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	No	29		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes	40.4		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes	15.3		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes	51.8		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	No	29.6		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	No	5.9		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	Yes	10.2		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	No	3.4		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	Yes	11.8		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	Yes	7.9		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	No	19		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes	29.6		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes	10		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes	38.9		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes	21		Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					1-Methylnaphthalene			1-Methylphenanthrene			2,3,5-Trimethylnaphthalene			2,6-Dimethylnaphthalene		
					µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	11.7		Yes	1.51	J	Yes	2.6		Yes	3.2		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	14.2	J	Yes	1.4	J	Yes	3.6		Yes	3.8		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	19.1		Yes	2.4		Yes	4.4		Yes	6		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	20.3		Yes	1.38	J	Yes	3.5		Yes	4.6		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	46.7		Yes	2.8		Yes	7.4		Yes	12.2		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	6.7		Yes	0.9	J	Yes	1.9		Yes	2.1		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	8.8		Yes	0.72	J	Yes	1.75	J	Yes	2.3		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	3.8		Yes	0.171	U	No	0.69	J	Yes	0.87	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	9.7	J	Yes	0.28	U	No	0.8	J	Yes	1.33	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	28.6		Yes	1.2	J	Yes	2.7		Yes	3.8		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	9		Yes	0.93	J	Yes	0.96	J	Yes	2		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	14.6		Yes	1.17	J	Yes	3.4		Yes	3.8		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	25.1		Yes	2.9		Yes	4.4		Yes	8.2		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	24.8		Yes	1.56	J	Yes	4.1		Yes	5.2		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	41.1		Yes	2.5		Yes	6		Yes	10.3		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	9		Yes	0.89	J	Yes	2.2		Yes	2.6		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	11.5		Yes	0.931	J	Yes	2.6		Yes	2.9		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	3.3		Yes	0.14	U	No	0.371	J	Yes	0.627	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	12.8	J	Yes	0.3	U	No	2.3	J	Yes	2	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	37.2		Yes	1.27	J	Yes	2.8		Yes	5		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	11.1		Yes	1.17	J	Yes	12.6		Yes	3.8	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	7.5		Yes	1.03	J	Yes	2.26	J	Yes	2.5	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	1.32	J	Yes	0.13	U	No	0.3	J	Yes	0.71	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	1.9	U	No	0.17	U	No	1.1	U	No	0.89	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	1.53	J	Yes	0.44	J	Yes	0.89	J	Yes	0.81	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	4.5		Yes	0.48	J	Yes	1.68	J	Yes	1.84	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	10		Yes	1.2	J	Yes	1.9	J	Yes	2.7		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	14.4	J	Yes	1.29	J	Yes	3.5		Yes	3.8		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	21.9		Yes	2.6		Yes	4.4		Yes	7		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	22.3		Yes	1.46	J	Yes	3.8		Yes	4.9		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	43.9		Yes	2.6		Yes	6.7		Yes	11.2		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	7.6		Yes	0.9	J	Yes	2		Yes	2.3		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	10		Yes	0.81	J	Yes	2.1	J	Yes	2.6		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	3.6		Yes	0.078	U	No	0.54	J	Yes	0.38	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	11	J	Yes	0.14	U	No	1.4	J	Yes	1.6	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	32.8		Yes	1.23	J	Yes	2.7		Yes	4.4		Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	19.4	J	Yes	1.19	J	Yes	4.1	J	Yes	6.5	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	7		Yes	4.3		Yes	9.4		Yes	9.8		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	3.6		Yes	4.4		Yes	8.5		Yes	9.1		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	2.9		Yes	2		Yes	5.2		Yes	3.7		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	1.92	J	Yes	1.39	J	Yes	5.4		Yes	4.1		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.5	U	No	0.282	U	No	0.72	J	Yes	0.51	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	1.06	J	Yes	0.36	J	Yes	1.64	J	Yes	1.4	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	4.4		Yes	3.4		Yes	6		Yes	3.8		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	33.3		Yes	68.1		Yes	38.1		Yes	46.6		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	14.6		Yes	8.4		Yes	18.5		Yes	20		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	7.4		Yes	4.9		Yes	18		Yes	13.8		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	1.8	J	Yes	0.84	J	Yes	3.2		Yes	1.85	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	2.2		Yes	1.52	J	Yes	3.5		Yes	3.2		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	323	J	Yes	10.2		Yes	51.4		Yes	92.1		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	113	J	Yes	3.8		Yes	19.2	J	Yes	28.5	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	198	J	Yes	10		Yes	45.6	J	Yes	71.2	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	53.3	J	Yes	2.7		Yes	19.1	J	Yes	26.6	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	58.1	J	Yes	6.7		Yes	22.2	J	Yes	30.5	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	37.8		Yes	4.3		Yes	14.2		Yes	19.3		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	916		Yes	26.4		Yes	95.9		Yes	216		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	998	J	Yes	20.9		Yes	106	J	Yes	201	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	24.6		Yes	1.5	J	Yes	4.9		Yes	6.4		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	25		Yes	2.4		Yes	6.2		Yes	8.7		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	18.8		Yes	2.5		Yes	6.5		Yes	6.7		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	87.2		Yes	6.6		Yes	25.4		Yes	28.5		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	22.8	J	Yes	1.2	U	No	9.8	J	Yes	9.5	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	21.3		Yes	1.83	J	Yes	9.1		Yes	11.5		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	20.9	J	Yes	1.5	U	No	6.4		Yes	6.5		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	124		Yes	13.1		Yes	30		Yes	49.9		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	47	J	Yes	2.5		Yes	8.9	J	Yes	17.1	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	88.8	J	Yes	9.8		Yes	29.2	J	Yes	41.8	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	148		Yes	7.8		Yes	28.9		Yes	50.4		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	112	J	Yes	10.6		Yes	30.1		Yes	48.5		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	531	J	Yes	15.9		Yes	67		Yes	135		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	85.5	J	Yes	3.1	J	Yes	15	J	Yes	22	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	163	J	Yes	8.9		Yes	39.3	J	Yes	57.8	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	43.8	J	Yes	2		Yes	16	J	Yes	21	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	46.1	J	Yes	5.1	J	Yes	18	J	Yes	24.3	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	17		Yes	8		Yes	29.7		Yes	19.6		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	5.1	J	Yes	0.55	J	Yes	2.2	J	Yes	2.2	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	17.9		Yes	1.08	J	Yes	7.2		Yes	8.8		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	23.5		Yes	1.63	J	Yes	7.6		Yes	12.3		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	2.4		Yes	1.81	J	Yes	4.8		Yes	2.9		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	2.6	J	Yes	0.18	U	No	0.72	J	Yes	0.67	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	1.83	J	Yes	0.43	U	No	1.1	U	No	1.23	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

					2-Methylnaphthalene			Acenaphthene			Acenaphthylene			Anthracene		
					µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	5.1		Yes	23.2		Yes	4.9		Yes	5.2		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	6.1	J	Yes	23		Yes	5.6		Yes	5.7		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	7		Yes	41.1		Yes	5.6		Yes	8.2		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	6		Yes	39.2		Yes	4.9		Yes	5.9		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	13.7		Yes	91.3		Yes	6.2		Yes	8.4		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	3.9		Yes	14.9		Yes	3.2		Yes	4.1		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	3.4		Yes	18.6		Yes	1.51	J	Yes	3		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	3		Yes	6.2		Yes	1.37	J	Yes	1.17	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	5.5	J	Yes	13.5		Yes	2.7		Yes	3		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	10.7		Yes	61.9		Yes	2.9		Yes	3.4		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	3.7		Yes	17.8		Yes	4		Yes	4.1		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	4.2		Yes	27.1		Yes	5.5		Yes	5.4		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	7.9		Yes	57.5		Yes	7.4		Yes	10.3		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	6.5		Yes	51.6		Yes	6.8		Yes	6.7		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	9.5		Yes	73.8		Yes	6.7		Yes	9.1		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	3.9		Yes	20.1		Yes	4		Yes	4.9		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	3.8		Yes	23.3		Yes	2.3		Yes	4		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	1.55	U	No	5.2		Yes	1.32	J	Yes	1.54	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	4	J	Yes	21.6		Yes	4.4	J	Yes	3.1		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	12.5		Yes	80.5		Yes	3.1		Yes	3.6		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	4.7		Yes	16.8		Yes	44.3	U	No	4.7		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	4.7		Yes	17.2		Yes	33.5	U	No	4.8		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	1.36	J	Yes	1.6	J	Yes	29.6	U	No	0.43	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	1.8	J	Yes	1.4	U	No	43.8	U	No	0.48	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	1.63	J	Yes	3.1		Yes	32.1	U	No	1.12	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	3.5		Yes	9.8		Yes	2.6	U	No	4		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	4.5		Yes	20.7		Yes	4.5		Yes	4.7		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	5.2	J	Yes	25		Yes	5.6		Yes	5.6		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	7.4		Yes	48.9		Yes	6.5		Yes	9.2		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	6.2		Yes	44.8		Yes	5.8		Yes	6.3		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	12		Yes	82.5		Yes	6.5		Yes	8.8		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	3.9		Yes	17		Yes	3.5		Yes	4.4		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	3.6		Yes	20.7		Yes	1.9	J	Yes	3.5		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	2		Yes	5.7		Yes	1.35	J	Yes	1.34	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	4.9	J	Yes	16.8		Yes	3.4	J	Yes	3		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	11.6		Yes	71		Yes	3		Yes	3.5		Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	18	J	Yes	14.3		Yes	21.8	U	No	5		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	2.6	J	Yes	21.4		Yes	9.2		Yes	12.7		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	2.3		Yes	13.6		Yes	3.2		Yes	14.5		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	1.66	J	Yes	7.6		Yes	2.9		Yes	5		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.88	UJ	No	9.9		Yes	4.5		Yes	5.5		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.52	UJ	No	0.84	J	Yes	0.49	J	Yes	0.68	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.85	UJ	No	2.2		Yes	1.59	J	Yes	1.78	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	3.8	J	Yes	14.3		Yes	6.9		Yes	8		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	15.5	J	Yes	50.9		Yes	24.1		Yes	65.3		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	9.1	J	Yes	29.4		Yes	13.9		Yes	28.2		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	5.1	J	Yes	18.3		Yes	9.3		Yes	15.5		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	2.3	J	Yes	9.1		Yes	2.4		Yes	5.5		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	2.6	J	Yes	4		Yes	4.2		Yes	5.8		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	84.8	J	Yes	381		Yes	88.1		Yes	69.8		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	24.7	J	Yes	151	J	Yes	103	J	Yes	66		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	50.5	J	Yes	346	J	Yes	134	J	Yes	75.1		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	22.1	J	Yes	125	J	Yes	44.1	J	Yes	29.3		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	27.4	J	Yes	99.8	J	Yes	41.9	J	Yes	31.4		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	17.4		Yes	57.4		Yes	34.3		Yes	27.7		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	234		Yes	791		Yes	161		Yes	168		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	168	J	Yes	686	J	Yes	104	J	Yes	104		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	6.2		Yes	34.3		Yes	29.5		Yes	27		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	8.5		Yes	29.9		Yes	25.3		Yes	22.3		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	6.8		Yes	24.8		Yes	17.7		Yes	13.7		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	22		Yes	152		Yes	55.1		Yes	43.9		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	9.3	J	Yes	54.9	J	Yes	30.8	J	Yes	15.8		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	10.3		Yes	40.4	J	Yes	22.6	J	Yes	16		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	7.3	J	Yes	32.8		Yes	26.3		Yes	31.1		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	35.6		Yes	185		Yes	45.5		Yes	78.9		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	9.1	J	Yes	67.8	J	Yes	26.7	J	Yes	38.8		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	30.9	J	Yes	164	J	Yes	59.9	J	Yes	66.5		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	54.8		Yes	206		Yes	41.1		Yes	65.2		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	41.6	J	Yes	174	J	Yes	47.9	J	Yes	68.4		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	137	J	Yes	525		Yes	114		Yes	104		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	19	J	Yes	115	J	Yes	80.1	J	Yes	53.9		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	41.6	J	Yes	285	J	Yes	109	J	Yes	65.3		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	18	J	Yes	103	J	Yes	40	J	Yes	25.1		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	21.8	J	Yes	80.5	J	Yes	35.6	J	Yes	26.4		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	9.7	J	Yes	50.3		Yes	16.1		Yes	15.7		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	4.5	J	Yes	13.2	J	Yes	11.2	J	Yes	6.3		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	11.9	J	Yes	37.3		Yes	7.5		Yes	7.6	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	17.3		Yes	43.5		Yes	9		Yes	15.1		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	1.48	J	Yes	7.9		Yes	2.9		Yes	3.8		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	1.64	J	Yes	4.5		Yes	4.7		Yes	3.4		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	1.12	J	Yes	4.5		Yes	1.51	J	Yes	2.2		Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					Benzo(a)anthracene			Benzo(a)pyrene			Benzo(b/j)fluoranthene			Benzo(e)pyrene		
					µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.84	J	Yes	0.45	J	Yes	0.53	J	Yes	0.5	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.38	J	Yes	0.25	UJ	No	0.2	U	No	0.2	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	0.54	J	Yes	0.21	UJ	No	0.23	J	Yes	0.17	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	0.38	J	Yes	0.36	UJ	No	0.3	U	No	0.29	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	0.242	J	Yes	0.11	UJ	No	0.083	J	Yes	0.157	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	0.77	J	Yes	0.65	J	Yes	1.36	J	Yes	0.75	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.152	J	Yes	0.068	UJ	No	0.066	J	Yes	0.12	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.114	J	Yes	0.16	UJ	No	0.124	J	Yes	0.15	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.244	J	Yes	0.081	UJ	No	0.124	J	Yes	0.152	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	0.211	J	Yes	0.096	UJ	No	0.05	U	No	0.096	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.37	J	Yes	0.36	UJ	No	0.27	U	No	0.29	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.251	J	Yes	0.27	UJ	No	0.22	U	No	0.22	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	0.45	J	Yes	0.38	UJ	No	0.29	U	No	0.3	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	0.35	J	Yes	0.3	UJ	No	0.26	U	No	0.24	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.355	J	Yes	0.11	UJ	No	0.064	U	No	0.082	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.25	J	Yes	0.19	UJ	No	0.17	U	No	0.16	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	0.155	J	Yes	0.069	UJ	No	0.06	J	Yes	0.097	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.142	J	Yes	0.084	UJ	No	0.046	U	No	0.067	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.221	J	Yes	0.17	UJ	No	0.091	U	No	0.12	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	0.129	J	Yes	0.12	UJ	No	0.077	J	Yes	0.132	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.59	J	Yes	0.25	J	Yes	0.58	J	Yes	0.28	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	0.78	J	Yes	0.43	U	No	0.37	J	Yes	0.45	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.25	UJ	No	0.26	U	No	0.23	J	Yes	0.26	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.3	UJ	No	0.35	U	No	0.25	UJ	No	0.34	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.53	J	Yes	0.34	J	Yes	0.75	J	Yes	0.42	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	0.56	J	Yes	0.53	U	No	0.44	UJ	No	0.52	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.63	J	Yes	0.33	J	Yes	0.35	J	Yes	0.34	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.32	J	Yes	0.13	UJ	No	0.1	U	No	0.1	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	0.5	J	Yes	0.15	UJ	No	0.19	J	Yes	0.12	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	0.37	J	Yes	0.17	UJ	No	0.14	U	No	0.13	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	0.299	J	Yes	0.055	UJ	No	0.057	J	Yes	0.12	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	0.56	J	Yes	0.43	J	Yes	0.85	J	Yes	0.48	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.153	J	Yes	0.034	UJ	No	0.063	J	Yes	0.11	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.127	J	Yes	0.063	UJ	No	0.078	J	Yes	0.11	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.235	J	Yes	0.059	UJ	No	0.092	J	Yes	0.11	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.171	J	Yes	0.054	UJ	No	0.05	J	Yes	0.11	J	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	3.2	J	Yes	2.6		Yes	3.52	J	Yes	2.29	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.58	J	Yes	0.6	U	No	0.28	U	No	0.51	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	1	U	No	2	U	No	1.5	UJ	No	1.5	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.2	U	No	0.38	U	No	0.22	U	No	0.31	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.19	U	No	0.5	U	No	0.22	U	No	0.41	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.29	U	No	0.47	U	No	0.21	U	No	0.39	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.16	U	No	0.72	U	No	0.39	U	No	0.59	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	1.97	J	Yes	1.69	J	Yes	2.48	J	Yes	1.9	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	72.6		Yes	67.8		Yes	84.5		Yes	56.6		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	1.69	J	Yes	1.46	J	Yes	2.15	J	Yes	1.7	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	14.7		Yes	19.7		Yes	36.8		Yes	23.4		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.4	U	No	0.51	U	No	0.26	J	Yes	0.59	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	3.6		Yes	4.3		Yes	7.6		Yes	5.3		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	3.5		Yes	1.1	U	No	0.61	U	No	0.87	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	4.6		Yes	1.22	J	Yes	2.23	J	Yes	1.39	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	7.3		Yes	4.5		Yes	6.8		Yes	3.7		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	4.6		Yes	3.3		Yes	6.3		Yes	3.6		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	11.8		Yes	9.2		Yes	13.4		Yes	9		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	1.59	J	Yes	0.86	U	No	0.45	U	No	0.68	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	11.9		Yes	4.8		Yes	5.1		Yes	3.5		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	3.8		Yes	0.99	U	No	0.53	U	No	0.82	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	1.59	J	Yes	0.43	U	No	0.27	J	Yes	0.37	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	2.04	J	Yes	1.2	U	No	0.66	U	No	0.91	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	1.23	J	Yes	0.7	U	No	0.39	U	No	0.55	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	2.9		Yes	0.69	U	No	0.41	U	No	0.54	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	1.14	J	Yes	0.58	U	No	0.35	U	No	0.46	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	1.27	J	Yes	0.28	U	No	0.17	U	No	0.25	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	1.61	J	Yes	0.91	U	No	0.51	U	No	0.72	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	3.3		Yes	3.3	U	No	0.22	J	Yes	0.38	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	2.9		Yes	1.88	J	Yes	2.53	J	Yes	1.68	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	6.4		Yes	3.1		Yes	3.14	J	Yes	2.1	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	3.2		Yes	1.91	J	Yes	2.74	J	Yes	1.89	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	5.2		Yes	3		Yes	4.23	J	Yes	2.9		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	6.4		Yes	2		Yes	2		Yes	1.5		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	3.7	J	Yes	0.91	J	Yes	1.6	J	Yes	0.54	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	5.9		Yes	3.2		Yes	4.7		Yes	2.6		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	3.5	J	Yes	2.4		Yes	4.4		Yes	2.6		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	8.38	J	Yes	6.3		Yes	9.1		Yes	6.1		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	0.68	J	Yes	0.68	U	No	0.35	U	No	0.56	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	0.53	J	Yes	0.41	U	No	0.23	U	No	0.45	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	0.7	J	Yes	1.1	U	No	0.54	U	No	0.91	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	0.94	U	No	2.8	U	No	2.3	UJ	No	2.2	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.14	U	No	0.34	U	No	0.16	U	No	0.28	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.22	U	No	0.3	U	No	0.17	U	No	0.25	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	1.5	U	No	1.9	U	No	1.4	UJ	No	1.5	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

					Benzo(g,h,i)perylene			Benzo(k)fluoranthene			Chrysene			Dibenzo(a,h)anthracene		
					µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.53	J	Yes	0.34	J	Yes	0.86	J	Yes	0.14	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.2	U	No	0.23	U	No	0.76	J	Yes	0.22	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	0.28	U	No	0.2	U	No	1.06	J	Yes	0.18	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	0.25	U	No	0.35	U	No	0.64	J	Yes	0.17	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	0.23	UJ	No	0.07	U	No	0.217	J	Yes	0.25	UJ	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	0.78	J	Yes	0.5	J	Yes	1.2	J	Yes	0.25	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.18	J	Yes	0.046	U	No	0.133	J	Yes	0.088	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.14	UJ	No	0.1	U	No	0.133	J	Yes	0.22	UJ	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.178	J	Yes	0.051	U	No	0.441	J	Yes	0.092	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	0.13	U	No	0.058	U	No	0.188	J	Yes	0.17	UJ	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.37	U	No	0.31	U	No	0.53	J	Yes	0.31	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.24	U	No	0.25	U	No	0.43	J	Yes	0.22	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	0.2	U	No	0.33	U	No	0.93	J	Yes	0.24	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	0.31	U	No	0.3	U	No	0.55	J	Yes	0.25	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.14	U	No	0.077	U	No	0.155	J	Yes	0.2	UJ	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.27	U	No	0.19	U	No	0.68	J	Yes	0.22	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	0.2	UJ	No	0.044	U	No	0.11	J	Yes	0.21	UJ	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.13	U	No	0.056	U	No	0.083	J	Yes	0.11	UJ	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.112	J	Yes	0.11	U	No	0.123	J	Yes	0.14	UJ	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	0.23	UJ	No	0.071	U	No	0.215	J	Yes	0.34	UJ	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.21	J	Yes	0.17	U	No	1.02	J	Yes	0.29	UJ	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	0.51	U	No	0.37	U	No	1.61	J	Yes	0.37	UJ	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.2	U	No	0.19	U	No	0.3	J	Yes	0.17	UJ	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.28	J	Yes	0.25	U	No	0.55	J	Yes	0.36	UJ	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.37	J	Yes	0.32	J	Yes	0.8	J	Yes	0.2	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	0.3	U	No	0.44	U	No	0.72	J	Yes	0.29	UJ	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.37	J	Yes	0.26	J	Yes	0.71	J	Yes	0.11	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.11	U	No	0.12	U	No	0.6	J	Yes	0.11	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	0.12	U	No	0.13	U	No	1	J	Yes	0.1	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	0.14	U	No	0.16	U	No	0.6	J	Yes	0.1	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	0.092	UJ	No	0.037	U	No	0.186	J	Yes	0.11	UJ	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	0.52	J	Yes	0.34	J	Yes	0.99	J	Yes	0.12	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.14	J	Yes	0.023	U	No	0.123	J	Yes	0.071	UJ	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.068	UJ	No	0.04	U	No	0.11	J	Yes	0.085	UJ	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.151	J	Yes	0.038	U	No	0.31	J	Yes	0.056	UJ	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.089	UJ	No	0.032	U	No	0.201	J	Yes	0.13	UJ	No
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	1.51	J	Yes	0.92	J	Yes	4.3	J	Yes	0.48	UJ	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.6	UJ	No	0.31	U	No	2.5	J	Yes	0.78	UJ	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	1.2	U	No	2.3	U	No	1.4	J	Yes	1.5	UJ	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.32	UJ	No	0.25	U	No	1.33	J	Yes	0.59	UJ	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.63	UJ	No	0.25	U	No	1.01	J	Yes	0.87	UJ	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.55	UJ	No	0.23	U	No	0.52	J	Yes	0.91	UJ	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.5	UJ	No	0.42	U	No	0.18	U	No	1	UJ	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	1.03	J	Yes	0.86	J	Yes	1.84	J	Yes	0.87	UJ	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	35.2		Yes	23.6		Yes	83.7	J	Yes	7.9		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	1.21	J	Yes	0.7	J	Yes	1.69	J	Yes	0.54	UJ	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	17.8		Yes	10.9		Yes	23.8	J	Yes	6.5	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.6	UJ	No	0.29	U	No	0.42	U	No	1	UJ	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	3.5		Yes	2.07	J	Yes	5.6	J	Yes	1.5	UJ	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	0.64	U	No	0.94	U	No	3.7	J	Yes	1.1	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	1.88	U	No	0.87	J	Yes	1.9	U	No	0.96	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	3.5	U	No	2.8		Yes	5.1	J	Yes	1.3	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	2.5	U	No	2.1	J	Yes	4.9	J	Yes	0.65	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	5.8		Yes	4.8		Yes	13.5	J	Yes	1.2	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	0.56	U	No	0.71	U	No	2.5	J	Yes	0.98	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	2.5	UJ	No	2	J	Yes	6.4	J	Yes	1.7	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	0.74	U	No	0.78	U	No	4.7	J	Yes	0.77	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	0.55	U	No	0.38	U	No	1.7	J	Yes	0.85	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	0.43	U	No	1	U	No	0.96	J	Yes	0.69	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	0.35	U	No	0.61	U	No	1.7	J	Yes	0.49	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	0.5	U	No	0.61	U	No	2.9	J	Yes	1.1	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	0.49	U	No	0.51	U	No	0.96	J	Yes	0.74	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	0.2	U	No	0.19	U	No	1.42	J	Yes	0.39	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	0.53	U	No	0.77	U	No	1.6	J	Yes	0.62	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	0.46	U	No	0.22	U	No	3.8	J	Yes	0.85	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	1.11	U	No	0.86	J	Yes	2.01	J	Yes	0.55	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	1.47	U	No	1.12	J	Yes	3.2	J	Yes	0.83	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	1.47	U	No	0.82	J	Yes	1.85	J	Yes	0.83	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	1.89	U	No	1.54	J	Yes	3.5	J	Yes	0.8	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	0.65	UJ	No	1	J	Yes	4.6	J	Yes	0.66	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	0.73	U	No	0.66	J	Yes	1.2	J	Yes	0.46	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	1.3	U	No	2		Yes	4.4	J	Yes	0.62	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	0.94	U	No	1.5	J	Yes	3.7	J	Yes	0.34	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	3.9		Yes	3.3		Yes	9.57	J	Yes	0.47	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	0.81	UJ	No	0.39	U	No	4.9	J	Yes	1.3	UJ	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	0.34	U	No	0.25	U	No	2.4	J	Yes	0.63	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	0.65	U	No	0.6	U	No	3.4	J	Yes	0.97	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	1.2	U	No	3.5	U	No	3.9	J	Yes	0.83	UJ	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.6	UJ	No	0.17	U	No	1.21	J	Yes	0.72	UJ	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.44	J	Yes	0.19	U	No	1	J	Yes	0.64	UJ	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	1.1	U	No	2.2	U	No	1.6	U	No	1.3	UJ	No

BERA Tissue Chemistry Data from Above Dundee Dam

					Dibenzothiophene			Fluoranthene			Fluorene			Indeno(1,2,3-cd)pyrene		
					µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.582	J	Yes	4.4		Yes	3.3		Yes	0.33	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.786	J	Yes	3.6		Yes	4.1		Yes	0.18	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	1.17	J	Yes	6.7		Yes	6.9		Yes	0.29	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	0.789	J	Yes	3.9		Yes	4.6		Yes	0.23	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	1.66	J	Yes	7.7		Yes	10.1	J	Yes	0.23	UJ	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	0.451	J	Yes	3.9		Yes	2.6		Yes	0.52	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.625	J	Yes	3		Yes	3.2	J	Yes	0.16	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.158	U	No	0.993	J	Yes	1.14	J	Yes	0.13	UJ	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.266	U	No	1.72	J	Yes	1.62	J	Yes	0.065	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	0.854	J	Yes	4.8		Yes	5.2	J	Yes	0.15	UJ	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.412	J	Yes	2.9		Yes	2.5		Yes	0.35	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.697	J	Yes	3.2		Yes	4		Yes	0.23	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	1.53	J	Yes	8.1		Yes	8.7		Yes	0.2	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	0.908	J	Yes	4.2		Yes	5.5		Yes	0.31	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	1.52	J	Yes	7.4		Yes	9.5	J	Yes	0.15	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.568	J	Yes	3.8		Yes	3.5		Yes	0.27	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	0.811	J	Yes	3.9		Yes	4.2	J	Yes	0.19	UJ	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.162	U	No	0.942	J	Yes	1.04	J	Yes	0.13	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.306	U	No	1.73	J	Yes	2.1	J	Yes	0.1	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	0.924	J	Yes	5.3		Yes	5.9	J	Yes	0.25	UJ	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.885	J	Yes	4.8		Yes	4.5		Yes	0.21	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	0.487	J	Yes	5.5		Yes	2.8		Yes	0.63	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.107	U	No	0.42	J	Yes	0.38	U	No	0.19	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.16	U	No	0.61	J	Yes	0.53	U	No	0.3	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.307	J	Yes	1.52	J	Yes	0.75	J	Yes	0.37	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	0.317	J	Yes	2.6		Yes	2.2		Yes	0.31	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.504	J	Yes	3.7		Yes	2.9		Yes	0.26	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.743	J	Yes	3.4		Yes	4.1		Yes	0.1	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	1.34	J	Yes	7.4		Yes	7.8		Yes	0.12	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	0.842	J	Yes	4		Yes	5		Yes	0.13	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	1.59	J	Yes	7.5		Yes	9.8	J	Yes	0.095	UJ	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	0.498	J	Yes	3.9		Yes	3		Yes	0.37	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.709	J	Yes	3.4		Yes	3.7	J	Yes	0.087	UJ	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.0799	U	No	0.97	J	Yes	1.09	J	Yes	0.065	UJ	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.141	U	No	1.72	J	Yes	1.8	J	Yes	0.04	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.888	J	Yes	5		Yes	5.5	J	Yes	0.099	UJ	No
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	1.1	J	Yes	6.2		Yes	5.6	J	Yes	1.15	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	2.7		Yes	13.8	J	Yes	10.3		Yes	0.65	UJ	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	3		Yes	9.6		Yes	18.9		Yes	1.4	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	1.11	J	Yes	7.3	J	Yes	4.6		Yes	0.36	UJ	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	1.35	J	Yes	6	J	Yes	5.3		Yes	0.66	UJ	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.175	U	No	1.6	J	Yes	0.55	J	Yes	0.58	UJ	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.302	J	Yes	2.5	J	Yes	1.2	J	Yes	0.5	UJ	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	1.15	J	Yes	13	J	Yes	7.5		Yes	0.72	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	12.1		Yes	161	J	Yes	43.2		Yes	26.3		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	4.2		Yes	24.5	J	Yes	17.7		Yes	0.68	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	2.6		Yes	51.8	J	Yes	10		Yes	12.9		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.856	J	Yes	5.8	J	Yes	4.9		Yes	0.66	UJ	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	0.725	J	Yes	17.9	J	Yes	2.8		Yes	2.5	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	13.6		Yes	23.8		Yes	53.3		Yes	0.65	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	3.2		Yes	11.4		Yes	16.2		Yes	1.31	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	6.7		Yes	25.1		Yes	33		Yes	3		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	3.6		Yes	15.5		Yes	16.5		Yes	1.94	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	3.4		Yes	26.4		Yes	18.4		Yes	4.6		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	2.7		Yes	11.3		Yes	12.5		Yes	0.63	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	30.6		Yes	47.5		Yes	119		Yes	2	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	21.8		Yes	45.3		Yes	86.8		Yes	0.81	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	1.27	J	Yes	4.5		Yes	6.3		Yes	0.55	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	1.69	J	Yes	6		Yes	7.2		Yes	0.47	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	1.3	J	Yes	7.3		Yes	5.7		Yes	0.4	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	3.9		Yes	14.7		Yes	21.5		Yes	0.49	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	1.26	J	Yes	4		Yes	5.9		Yes	0.42	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	1.33	J	Yes	6.7		Yes	9.4		Yes	0.19	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	1.64	J	Yes	5.4		Yes	6.7		Yes	0.54	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	10.5		Yes	28.2		Yes	56.6		Yes	0.44	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	2.08	J	Yes	7.9		Yes	13.4		Yes	0.94	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	6		Yes	27.1		Yes	32.9		Yes	1.22	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	8.2		Yes	21		Yes	48.6		Yes	0.66	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	7.9		Yes	28.1		Yes	40.9		Yes	1.54	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	19.6		Yes	32.1		Yes	76.3		Yes	0.56	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	2.6	J	Yes	9.3		Yes	13		Yes	0.54	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	5.8		Yes	21.8		Yes	29.4		Yes	2.1		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	2.9	J	Yes	12		Yes	13		Yes	0.73	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	2.7	J	Yes	20		Yes	15		Yes	3.1		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	3.7		Yes	26.4	J	Yes	18.9		Yes	0.85	UJ	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	0.229	U	No	1.91	J	Yes	2.2		Yes	0.4	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	0.769	J	Yes	5.3	J	Yes	5	J	Yes	0.65	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	1.66	J	Yes	7.7		Yes	16.5		Yes	1.3	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	1.03	J	Yes	6.4	J	Yes	4.2		Yes	0.65	UJ	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.112	U	No	0.631	J	Yes	0.83	J	Yes	0.43	UJ	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	0.141	J	Yes	1.03	J	Yes	1.19	J	Yes	1.1	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

					Naphthalene			Perylene			Phenanthrene			Pyrene			Total benzofluoranthenes		
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	9.1	J	Yes	0.17	U	No	6.3	J	Yes	3.5		Yes	0.87	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	5.7	J	Yes	0.2	U	No	6.8	J	Yes	2.2	U	No	0.23	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	5.7	J	Yes	0.16	U	No	13	J	Yes	3.7		Yes	0.23	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	5.5	J	Yes	0.29	U	No	7.6	J	Yes	2.4	U	No	0.35	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	9.2	J	Yes	0.095	U	No	17.1		Yes	4.3		Yes	0.083	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	5.5	J	Yes	0.2	J	Yes	5.5	J	Yes	2.9		Yes	1.86	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	4.2	UJ	No	0.14	U	No	6.2		Yes	1.76	U	No	0.066	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	2.9	UJ	No	0.14	U	No	1.58	U	No	0.77	U	No	0.124	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	4.9	J	Yes	0.065	U	No	2.4		Yes	1.33	U	No	0.124	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	10.1	J	Yes	0.093	U	No	8.1		Yes	2.9		Yes	0.058	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	7.7	J	Yes	0.27	U	No	4.5	J	Yes	1.83	U	No	0.31	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	4.2	UJ	No	0.22	U	No	6	J	Yes	2	U	No	0.25	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	7.2	J	Yes	0.3	U	No	16.3	J	Yes	4.3		Yes	0.33	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	6.7	J	Yes	0.26	U	No	8.5	J	Yes	2.6		Yes	0.3	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	7.9	J	Yes	0.09	U	No	15.8		Yes	4.1		Yes	0.077	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	5.1	J	Yes	0.16	U	No	6.9	J	Yes	2.2	U	No	0.19	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	4.1	UJ	No	0.06	U	No	8.4		Yes	2.2	U	No	0.06	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	1.8	UJ	No	0.072	U	No	1.48	U	No	0.737	U	No	0.056	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	5.6	J	Yes	0.35	J	Yes	2.9		Yes	1.31	U	No	0.11	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	13.4	J	Yes	0.11	U	No	8.5		Yes	3.2		Yes	0.077	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	3.6		Yes	0.17	U	No	7.8		Yes	2.9		Yes	0.58	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	5		Yes	0.32	U	No	4.9		Yes	3.4		Yes	0.37	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	1.3	U	No	0.2	U	No	0.75	U	No	0.46	U	No	0.23	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	2	U	No	0.25	U	No	0.74	U	No	0.6	U	No	0.25	UJ	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	2.6	U	No	0.28	J	Yes	1.34	U	No	1.15	J	Yes	1.07	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	3.3	U	No	0.42	U	No	3.5		Yes	1.59	J	Yes	0.44	UJ	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	8.5	J	Yes	0.11	U	No	5.5	J	Yes	2.3		Yes	0.54	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	4	J	Yes	0.1	U	No	6.4	J	Yes	1.1	U	No	0.12	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	6.4	J	Yes	0.11	U	No	14.6	J	Yes	4		Yes	0.2	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	6	J	Yes	0.14	U	No	8	J	Yes	1.8		Yes	0.16	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	8.5	J	Yes	0.046	U	No	16.4		Yes	4.2		Yes	0.061	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	5.3	J	Yes	0.15	J	Yes	6.1	J	Yes	2.2		Yes	1.2	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	2.1	UJ	No	0.052	U	No	7.2		Yes	0.98	U	No	0.0633	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	1.2	UJ	No	0.054	U	No	0.767	U	No	0.377	U	No	0.08	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	5.2	J	Yes	0.16	J	Yes	2.6		Yes	0.661	U	No	0.096	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	11.7	J	Yes	0.051	U	No	8.3		Yes	3		Yes	0.052	J	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	15.3	UJ	No	0.48	J	Yes	6.2		Yes	5.8		Yes	4.44	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	1.6	UJ	No	0.47	U	No	22.2		Yes	12.8		Yes	0.31	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.89	U	No	1.8	U	No	37.4		Yes	7.8	J	Yes	2.3	UJ	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	1.3	UJ	No	0.33	U	No	9.8		Yes	6.4		Yes	0.25	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	1.59	UJ	No	0.42	U	No	11.3		Yes	4.5		Yes	0.25	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.76	UJ	No	0.38	U	No	1.68	J	Yes	1.45	J	Yes	0.23	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	1.25	UJ	No	0.7	U	No	3.4		Yes	1.78	J	Yes	0.42	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	2.2	UJ	No	0.38	U	No	10.4		Yes	14.9		Yes	3.34	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	13.2	J	Yes	13.9		Yes	157		Yes	169		Yes	108		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	2.4	UJ	No	0.39	J	Yes	44.8		Yes	17.5		Yes	2.85	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	3.6	J	Yes	5.4		Yes	31.1		Yes	40.9		Yes	47.7		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	1.61	UJ	No	0.48	U	No	6.2		Yes	4.5		Yes	0.26	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	1.31	UJ	No	1.41	J	Yes	10.5		Yes	13.5		Yes	9.67	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	33.5	J	Yes	0.71	U	No	80.9		Yes	19	J	Yes	0.94	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	23.3	J	Yes	0.49	U	No	25		Yes	8.4	J	Yes	3.1	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	40.1	J	Yes	1.4	U	No	62.6		Yes	24	J	Yes	9.6		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	17.1	J	Yes	1.04	U	No	21.7		Yes	12.9	J	Yes	8.4	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	20.4	J	Yes	2.04	J	Yes	32.3		Yes	25.8	J	Yes	18.2		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	8.2	J	Yes	0.56	U	No	19.9		Yes	10.3	J	Yes	0.71	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	101	J	Yes	1	U	No	185		Yes	43.7	J	Yes	7.1	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	147	J	Yes	0.69	U	No	165		Yes	35.6	J	Yes	0.78	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	7.7	J	Yes	0.3	U	No	10.3		Yes	3.3	J	Yes	0.27	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	5.2	J	Yes	0.83	U	No	13.6		Yes	5.2	J	Yes	1	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	5.5	J	Yes	0.51	U	No	12.3		Yes	7.2	J	Yes	0.61	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	20.3	J	Yes	0.54	U	No	35		Yes	12.7	J	Yes	0.61	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	10.7	J	Yes	0.45	U	No	8.3		Yes	3.4	J	Yes	0.51	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	7.2	J	Yes	0.31	U	No	10.3		Yes	7	J	Yes	0.19	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	10.8	J	Yes	0.65	U	No	9.3		Yes	5.3	J	Yes	0.77	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	19.9	J	Yes	0.35	U	No	67.7		Yes	27.7	J	Yes	0.22	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	8.7	J	Yes	0.49	U	No	15.6		Yes	7.9	J	Yes	3.39	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	17.2	J	Yes	0.7	U	No	44.4		Yes	26.7	J	Yes	4.26	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	23.8	J	Yes	0.48	U	No	56.5		Yes	18.8	J	Yes	3.56	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	18.3	J	Yes	0.7	U	No	55.8		Yes	27.4	J	Yes	5.77	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	57.1	J	Yes	0.41	U	No	117		Yes	27.6	J	Yes	2.8	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	18	J	Yes	0.22	U	No	20.4		Yes	6.8	J	Yes	2.22	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	33.9	J	Yes	0.56	U	No	53.9		Yes	20.5	J	Yes	6.7		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	15.1	J	Yes	0.43	U	No	18		Yes	10	J	Yes	5.9	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	16	J	Yes	1.4	J	Yes	25.2		Yes	20	J	Yes	12		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	4.3	J	Yes	0.59	U	No	37.3		Yes	19.9		Yes	0.39	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	3.6	J	Yes	0.37	U	No	2.2		Yes	1.52	J	Yes	0.25	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	7.7	J	Yes	0.96	U	No	6.5	J	Yes	3.6		Yes	0.6	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	10.5		Yes	2.6	U	No	12.2		Yes	4.3	J	Yes	3.5	UJ	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	1.09	UJ	No	0.3	U	No	8.3		Yes	5.3		Yes	0.17	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	2.2	UJ	No	0.29	U	No	0.7	U	No	0.651	U	No	0.19	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	1.52	U	No	1.7	U	No	1.06	U	No	1.03	J	Yes	2.2	UJ	No

BERA Tissue Chemistry Data from Above Dundee Dam

					Total benzofluoranthenes (ND=0.5DL)			Total benzofluoranthenes (ND=DL)			Total carcinogenic PAHs			Total carcinogenic PAHs (ND=0.5DL)			Total carcinogenic PAHs (ND=DL)		
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.87	J	Yes	0.87	J	Yes	0.624	J	Yes	0.694	J	Yes	0.764	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.23	U	No	0.23	U	No	0.0388	J	Yes	0.294	J	Yes	0.549	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	0.33	J	Yes	0.43	J	Yes	0.0781	J	Yes	0.289	J	Yes	0.499	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	0.35	U	No	0.35	U	No	0.0386	J	Yes	0.332	J	Yes	0.625	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	0.118	J	Yes	0.153	J	Yes	0.0327	J	Yes	0.225	J	Yes	0.416	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	1.86	J	Yes	1.86	J	Yes	0.921	J	Yes	1.05	J	Yes	1.17	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.089	J	Yes	0.112	J	Yes	0.0219	J	Yes	0.108	J	Yes	0.194	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.174	J	Yes	0.224	J	Yes	0.0239	J	Yes	0.221	J	Yes	0.418	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.15	J	Yes	0.175	J	Yes	0.0372	J	Yes	0.127	J	Yes	0.217	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	0.058	U	No	0.058	U	No	0.0213	J	Yes	0.165	J	Yes	0.308	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.31	U	No	0.31	U	No	0.0375	J	Yes	0.405	J	Yes	0.773	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.25	U	No	0.25	U	No	0.0255	J	Yes	0.294	J	Yes	0.563	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	0.33	U	No	0.33	U	No	0.0459	J	Yes	0.382	J	Yes	0.718	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	0.3	U	No	0.3	U	No	0.0356	J	Yes	0.341	J	Yes	0.646	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.077	U	No	0.077	U	No	0.0357	J	Yes	0.202	J	Yes	0.368	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.19	U	No	0.19	U	No	0.0257	J	Yes	0.254	J	Yes	0.482	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	0.082	J	Yes	0.104	J	Yes	0.0216	J	Yes	0.171	J	Yes	0.32	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.056	U	No	0.056	U	No	0.0143	J	Yes	0.12	J	Yes	0.226	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.11	U	No	0.11	U	No	0.0222	J	Yes	0.187	J	Yes	0.352	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	0.113	J	Yes	0.148	J	Yes	0.0208	J	Yes	0.264	J	Yes	0.507	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.665	J	Yes	0.75	J	Yes	0.389	J	Yes	0.535	J	Yes	0.681	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	0.555	J	Yes	0.74	J	Yes	0.117	J	Yes	0.55	J	Yes	0.983	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.325	J	Yes	0.42	J	Yes	0.0233	J	Yes	0.261	J	Yes	0.499	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.25	UJ	No	0.25	UJ	No	0.00055	J	Yes	0.399	J	Yes	0.798	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	1.07	J	Yes	1.07	J	Yes	0.709	J	Yes	0.709	J	Yes	0.709	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	0.44	UJ	No	0.44	UJ	No	0.0567	J	Yes	0.506	J	Yes	0.956	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.54	J	Yes	0.54	J	Yes	0.357	J	Yes	0.562	J	Yes	0.768	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.12	U	No	0.12	U	No	0.0324	J	Yes	0.294	J	Yes	0.556	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	0.25	J	Yes	0.3	J	Yes	0.0629	J	Yes	0.333	J	Yes	0.603	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	0.16	U	No	0.16	U	No	0.0373	J	Yes	0.336	J	Yes	0.634	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	0.078	J	Yes	0.096	J	Yes	0.0342	J	Yes	0.213	J	Yes	0.392	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	1.2	J	Yes	1.2	J	Yes	0.562	J	Yes	0.731	J	Yes	0.894	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.0859	J	Yes	0.108	J	Yes	0.0218	J	Yes	0.136	J	Yes	0.251	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.11	J	Yes	0.13	J	Yes	0.0195	J	Yes	0.175	J	Yes	0.33	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.11	J	Yes	0.13	J	Yes	0.031	J	Yes	0.152	J	Yes	0.273	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.07	J	Yes	0.087	J	Yes	0.0211	J	Yes	0.213	J	Yes	0.405	J	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	4.44	J	Yes	4.44	J	Yes	3.4	J	Yes	3.64	J	Yes	3.88	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.31	U	No	0.31	U	No	0.0605	J	Yes	0.799	J	Yes	1.54	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	2.3	UJ	No	2.3	UJ	No	0.0014	J	Yes	1.96	J	Yes	3.91	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.25	U	No	0.25	U	No	0.00133	J	Yes	0.527	J	Yes	1.05	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.25	U	No	0.25	U	No	0.00101	J	Yes	0.741	J	Yes	1.48	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.23	U	No	0.23	U	No	0.00052	J	Yes	0.746	J	Yes	1.49	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.42	U	No	0.42	U	No	1	UJ	No	1	UJ	No	1	UJ	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	3.34	J	Yes	3.34	J	Yes	2.22	J	Yes	2.65	J	Yes	3.09	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	108		Yes	108		Yes	94.4	J	Yes	94.4	J	Yes	94.4	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	2.85	J	Yes	2.85	J	Yes	1.92	J	Yes	2.19	J	Yes	2.46	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	47.7		Yes	47.7		Yes	26.3	J	Yes	29.5	J	Yes	32.8	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.405	J	Yes	0.55	J	Yes	0.026	J	Yes	0.836	J	Yes	1.65	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	9.67	J	Yes	9.67	J	Yes	5.7	J	Yes	6.45	J	Yes	7.2	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	0.94	U	No	0.94	U	No	0.354	J	Yes	1.52	J	Yes	2.69	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	3.1	J	Yes	3.1	J	Yes	1.91	J	Yes	2.46	J	Yes	3	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	9.6		Yes	9.6		Yes	6.24	J	Yes	6.89	J	Yes	7.54	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	8.4	J	Yes	8.4	J	Yes	4.42	J	Yes	4.84	J	Yes	5.26	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	18.2		Yes	18.2		Yes	12.2	J	Yes	12.8	J	Yes	13.4	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	0.71	U	No	0.71	U	No	0.162	J	Yes	1.14	J	Yes	2.12	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	7.1	J	Yes	7.1	J	Yes	6.53	J	Yes	7.48	J	Yes	8.43	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	0.78	U	No	0.78	U	No	0.385	J	Yes	1.34	J	Yes	2.29	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	0.46	J	Yes	0.65	J	Yes	0.188	J	Yes	0.857	J	Yes	1.53	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	1	U	No	1	U	No	0.205	J	Yes	1.21	J	Yes	2.22	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	0.61	U	No	0.61	U	No	0.125	J	Yes	0.762	J	Yes	1.4	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	0.61	U	No	0.61	U	No	0.293	J	Yes	1.24	J	Yes	2.18	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	0.51	U	No	0.51	U	No	0.115	J	Yes	0.816	J	Yes	1.52	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	0.19	U	No	0.19	U	No	0.128	J	Yes	0.482	J	Yes	0.836	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	0.77	U	No	0.77	U	No	0.163	J	Yes	0.984	J	Yes	1.81	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	0.33	J	Yes	0.44	J	Yes	0.356	J	Yes	2.45	J	Yes	4.55	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	3.39	J	Yes	3.39	J	Yes	2.43	J	Yes	2.76	J	Yes	3.08	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	4.26	J	Yes	4.26	J	Yes	4.07	J	Yes	4.54	J	Yes	5.02	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	3.56	J	Yes	3.56	J	Yes	2.51	J	Yes	2.96	J	Yes	3.41	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	5.77	J	Yes	5.77	J	Yes	3.96	J	Yes	4.44	J	Yes	4.92	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	2.8	J	Yes	2.8	J	Yes	2.52	J	Yes	3.61	J	Yes	4.7	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	2.28	J	Yes	2.34	J	Yes	1.37	J	Yes	1.96	J	Yes	2.54	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	6.7		Yes	6.7		Yes	4.37	J	Yes	5.12	J	Yes	5.86	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	5.9	J	Yes	5.9	J	Yes	3.09	J	Yes	3.59	J	Yes	4.1	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	12		Yes	12		Yes	8.28	J	Yes	8.8	J	Yes	9.32	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	0.39	U	No	0.39	U	No	0.0729	J	Yes	1.12	J	Yes	2.18	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	0.25	U	No	0.25	U	No	0.0554	J	Yes	0.608	J	Yes	1.16	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	0.6	U	No	0.6	U	No	0.0734	J	Yes	1.17	J	Yes	2.27	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	3.5	UJ	No	3.5	UJ	No	0.0039	J	Yes	2.06	J	Yes	4.12	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.17	U	No	0.17	U	No	0.00121	J	Yes	0.58	J	Yes	1.16	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.19	U	No	0.19	U	No	0.001	J	Yes	0.513	J	Yes	1.02	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	2.2	UJ	No	2.2	UJ	No	1.9	UJ	No	1.9	UJ	No	1.9	UJ	No

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	Total HPAHs µg/kg Value	Qual	Detect	Total HPAHs (ND=0.5DL) µg/kg Value	Qual	Detect	Total HPAHs (ND=DL) µg/kg Value	Qual	Detect	Total LPAHs µg/kg Value	Qual	Detect	Total LPAHs (ND=0.5DL) µg/kg Value	Qual	Detect	Total LPAHs (ND=DL) µg/kg Value	Qual	Detect	Total PAHs µg/kg Value	Qual	Detect	Total PAHs (ND=0 µg/kg Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	11.8	J	Yes	11.9	J	Yes	11.9	J	Yes	52	J	Yes	52	J	Yes	52	J	Yes	63.8	J	Yes	63.9	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	4.74	J	Yes	6.48	J	Yes	8.22	J	Yes	50.9	J	Yes	50.9	J	Yes	50.9	J	Yes	55.6	J	Yes	57.4	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	12.2	J	Yes	12.8	J	Yes	13.4	J	Yes	80.5	J	Yes	80.5	J	Yes	80.5	J	Yes	92.7	J	Yes	93.3	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	4.92	J	Yes	6.95	J	Yes	8.98	J	Yes	67.7	J	Yes	67.7	J	Yes	67.7	J	Yes	72.6	J	Yes	74.7	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	12.5	J	Yes	13	J	Yes	13.4	J	Yes	142	J	Yes	142	J	Yes	142	J	Yes	155	J	Yes	155	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	12.6	J	Yes	12.7	J	Yes	12.8	J	Yes	35.8	J	Yes	35.8	J	Yes	35.8	J	Yes	48.4	J	Yes	48.5	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	3.53	J	Yes	4.59	J	Yes	5.65	J	Yes	32.5	J	Yes	34.6	J	Yes	36.7	J	Yes	36	J	Yes	39.2	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	1.36	J	Yes	2.12	J	Yes	2.88	J	Yes	9.88	J	Yes	12.1	J	Yes	14.4	J	Yes	11.2	J	Yes	14.2	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	2.71	J	Yes	3.52	J	Yes	4.33	J	Yes	28.1	J	Yes	28.1	J	Yes	28.1	J	Yes	30.8	J	Yes	31.6	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	8.1	J	Yes	8.43	J	Yes	8.75	J	Yes	91.6	J	Yes	91.6	J	Yes	91.6	J	Yes	99.7	J	Yes	100	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	3.8	J	Yes	5.7	J	Yes	7.6	J	Yes	40.6	J	Yes	40.6	J	Yes	40.6	J	Yes	44.4	J	Yes	46.3	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	3.88	J	Yes	5.6	J	Yes	7.31	J	Yes	48	J	Yes	50.1	J	Yes	52.2	J	Yes	51.9	J	Yes	55.7	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	13.8	J	Yes	14.6	J	Yes	15.4	J	Yes	107	J	Yes	107	J	Yes	107	J	Yes	121	J	Yes	122	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	7.7	J	Yes	8.57	J	Yes	9.43	J	Yes	85.8	J	Yes	85.8	J	Yes	85.8	J	Yes	93.5	J	Yes	94.4	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	12	J	Yes	12.4	J	Yes	12.8	J	Yes	123	J	Yes	123	J	Yes	123	J	Yes	135	J	Yes	135	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	4.73	J	Yes	6.49	J	Yes	8.24	J	Yes	44.5	J	Yes	44.5	J	Yes	44.5	J	Yes	49.2	J	Yes	51	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	4.23	J	Yes	5.68	J	Yes	7.14	J	Yes	42.2	J	Yes	44.3	J	Yes	46.3	J	Yes	46.4	J	Yes	49.9	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	1.17	J	Yes	1.81	J	Yes	2.46	J	Yes	9.1	J	Yes	10.7	J	Yes	12.4	J	Yes	10.3	J	Yes	12.6	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	2.19	J	Yes	3.15	J	Yes	4.11	J	Yes	39.7	J	Yes	39.7	J	Yes	39.7	J	Yes	41.9	J	Yes	42.8	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	8.92	J	Yes	9.43	J	Yes	9.93	J	Yes	115	J	Yes	115	J	Yes	115	J	Yes	124	J	Yes	124	J
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	10.6	J	Yes	10.8	J	Yes	11	J	Yes	37.4		Yes	59.6		Yes	81.7		Yes	48	J	Yes	70.3	J
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	11.7	J	Yes	12.8	J	Yes	14	J	Yes	34.7		Yes	51.5		Yes	68.2		Yes	46.4	J	Yes	64.3	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.95	J	Yes	1.81	J	Yes	2.67	J	Yes	2.03	J	Yes	18	J	Yes	34.1	J	Yes	2.98	J	Yes	19.9	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	1.44	J	Yes	2.65	J	Yes	3.85	J	Yes	0.48	J	Yes	24.7	J	Yes	49	J	Yes	1.92	J	Yes	27.4	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	6.35	J	Yes	6.35	J	Yes	6.35	J	Yes	4.97	J	Yes	23	J	Yes	41	J	Yes	11.3	J	Yes	29.3	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	5.47	J	Yes	6.63	J	Yes	7.78	J	Yes	19.5		Yes	22.5		Yes	25.4		Yes	25	J	Yes	29.1	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	8.15	J	Yes	9.07	J	Yes	9.94	J	Yes	46.8	J	Yes	46.8	J	Yes	46.8	J	Yes	55	J	Yes	55.9	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	4.33	J	Yes	6.06	J	Yes	7.78	J	Yes	49.5	J	Yes	50.5	J	Yes	51.5	J	Yes	53.8	J	Yes	56.6	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	13	J	Yes	13.7	J	Yes	14.3	J	Yes	93	J	Yes	93	J	Yes	93	J	Yes	106	J	Yes	107	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	6.17	J	Yes	7.68	J	Yes	9.18	J	Yes	75.8	J	Yes	75.8	J	Yes	75.8	J	Yes	82	J	Yes	83.5	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	12.2	J	Yes	12.7	J	Yes	13.1	J	Yes	132	J	Yes	132	J	Yes	132	J	Yes	145	J	Yes	145	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	9.44	J	Yes	10.2	J	Yes	11	J	Yes	39.3	J	Yes	39.3	J	Yes	39.3	J	Yes	48.7	J	Yes	49.5	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	3.85	J	Yes	5.08	J	Yes	6.32	J	Yes	36.9	J	Yes	39	J	Yes	41	J	Yes	40.7	J	Yes	44	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	1.27	J	Yes	1.98	J	Yes	2.69	J	Yes	9.52	J	Yes	11.5	J	Yes	13.5	J	Yes	10.8	J	Yes	13.5	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	2.5	J	Yes	3.37	J	Yes	4.24	J	Yes	32.9	J	Yes	32.9	J	Yes	32.9	J	Yes	35.4	J	Yes	36.2	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	8.5	J	Yes	8.92	J	Yes	9.33	J	Yes	103	J	Yes	103	J	Yes	103	J	Yes	112	J	Yes	110	J
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	29.2	J	Yes	29.4	J	Yes	29.7	J	Yes	31.1	J	Yes	49.7	J	Yes	68.2	J	Yes	60.3	J	Yes	79.1	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	29.7	J	Yes	31.3	J	Yes	32.9	J	Yes	75.8	J	Yes	76.6	J	Yes	77.4	J	Yes	105	J	Yes	108	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	18.8	J	Yes	24.3	J	Yes	29.7	J	Yes	87.6		Yes	88		Yes	88.5		Yes	106	J	Yes	112	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	15	J	Yes	16.2	J	Yes	17.4	J	Yes	29.9	J	Yes	30.6	J	Yes	31.2	J	Yes	44.9	J	Yes	46.7	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	11.5	J	Yes	13.2	J	Yes	14.8	J	Yes	36.5	J	Yes	37.3	J	Yes	38.1	J	Yes	48	J	Yes	50.5	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	3.57	J	Yes	5.19	J	Yes	6.81	J	Yes	4.24	J	Yes	4.62	J	Yes	5	J	Yes	7.81	J	Yes	9.81	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	4.28	J	Yes	6.22	J	Yes	8.15	J	Yes	10.2	J	Yes	10.8	J	Yes	11.4	J	Yes	14.5	J	Yes	17	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	38.5	J	Yes	38.9	J	Yes	39.4	J	Yes	47.1	J	Yes	48.2	J	Yes	49.3	J	Yes	85.6	J	Yes	87.1	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	732	J	Yes	732	J	Yes	732	J	Yes	354	J	Yes	354	J	Yes	354	J	Yes	1090	J	Yes	1090	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	51.6	J	Yes	51.9	J	Yes	52.1	J	Yes	134	J	Yes	135	J	Yes	136	J	Yes	186	J	Yes	187	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	229	J	Yes	233	J	Yes	236	J	Yes	87.8	J	Yes	87.8	J	Yes	87.8	J	Yes	317	J	Yes	320	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	10.6	J	Yes	12.5	J	Yes	14.4	J	Yes	28.1	J	Yes	28.9	J	Yes	29.7	J	Yes	38.7	J	Yes	41.4	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	60.6	J	Yes	61.3	J	Yes	62.1	J	Yes	27.3	J	Yes	28	J	Yes	28.6	J	Yes	87.9	J	Yes	89.3	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	50	J	Yes	52.5	J	Yes	55	J	Yes	707	J	Yes	707	J	Yes	707	J	Yes	757	J	Yes	759	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	28.7	J	Yes	31.7	J	Yes	34.8	J	Yes	385	J	Yes	385	J	Yes	385	J	Yes	413	J	Yes	416	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	78.6	J	Yes	81	J	Yes	83.4	J	Yes	691	J	Yes	691	J	Yes	691	J	Yes	769	J	Yes	772	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	49.6	J	Yes	52.1	J	Yes	54.7	J	Yes	254	J	Yes	254	J	Yes	254	J	Yes	303	J	Yes	306	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	115	J	Yes	116	J	Yes	117	J	Yes	244	J	Yes	244	J	Yes	244	J	Yes	360	J	Yes	360	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	25.7	J	Yes	27.8	J	Yes	29.9	J	Yes	160	J	Yes	160	J	Yes	160	J	Yes	186	J	Yes	188	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	121	J	Yes	125	J	Yes	128	J	Yes	1530	J	Yes	1530	J	Yes	1530	J	Yes	1650	J	Yes	1650	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	89.4	J	Yes	91.7	J	Yes	94	J	Yes	1290	J	Yes	1290	J	Yes	1290	J	Yes	1380	J	Yes	1380	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	11.4	J	Yes	12.7	J	Yes	14.1	J	Yes	115	J	Yes	115	J	Yes	115	J	Yes	126	J	Yes	128	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	14.2	J	Yes	16.4	J	Yes	18.7	J	Yes	104	J	Yes	104	J	Yes	104	J	Yes	118	J	Yes	120	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	17.4	J	Yes	18.9	J	Yes	20.4	J	Yes	79.7	J	Yes	79.7	J	Yes	79.7	J	Yes	97.1	J	Yes	98.6	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	33.2	J	Yes	35.1	J	Yes	37	J	Yes	328	J	Yes	328	J	Yes	328	J	Yes	361	J	Yes	363	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	9.5	J	Yes	11	J	Yes	12.6	J	Yes	126	J	Yes	126	J	Yes	126	J	Yes	136	J	Yes	137	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	16.4	J	Yes	17.1	J	Yes	17.8	J	Yes	106	J	Yes	106	J	Yes	106	J	Yes	122	J	Yes	123	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	13.9	J	Yes	15.9	J	Yes	17.8	J	Yes	117	J	Yes	117	J	Yes	117	J	Yes	131	J	Yes	133	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	63.2	J	Yes	65.9	J	Yes	68.5	J	Yes	454	J	Yes	454	J	Yes	454	J	Yes	517	J	Yes	519	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	26	J	Yes	27.3	J	Yes	28.6	J	Yes	171	J	Yes	171	J	Yes	171	J	Yes	197	J	Yes	198	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	70.8	J	Yes	72.5	J	Yes	74.3	J	Yes	385	J	Yes	385	J	Yes	385	J	Yes	456	J	Yes	457	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	50.3	J	Yes	51.8	J	Yes	53.3	J	Yes	441	J	Yes	441	J	Yes	441	J	Yes	492	J	Yes	493	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	73	J	Yes	75.1	J	Yes	77.2	J	Yes	405	J	Yes	405	J	Yes	405	J	Yes	478	J	Yes	480	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	74.9	J	Yes	77.9	J	Yes	80.6	J	Yes	995	J	Yes	995	J	Yes	995	J	Yes	1070	J	Yes	1070	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	23.3	J	Yes	25.8	J	Yes	28.4	J	Yes	301	J	Yes	301	J	Yes	301	J	Yes	324	J	Yes	326	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	64.3	J	Yes	66.6	J	Yes	68.8	J	Yes	577	J	Yes	577	J	Yes	577	J	Yes	641	J	Yes	644	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	37.2	J	Yes	39.4	J	Yes	41.6	J	Yes	214	J	Yes	214	J	Yes	214	J	Yes	251	J	Yes	254	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	83	J	Yes	83.9	J	Yes	84.8	J	Yes	199	J	Yes	199	J	Yes	199	J	Yes	280	J	Yes	280	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	51.9	J	Yes	54.1	J	Yes	56.3	J	Yes	143	J	Yes	143	J	Yes	143	J	Yes	194	J	Yes	197	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	6.36	J	Yes	7.49	J	Yes	8.62	J	Yes	38.7	J	Yes	38.7	J	Yes	38.7	J	Yes	45.1	J	Yes	46.2	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	13	J	Yes	15.3	J	Yes	17.5	J	Yes	71.6	J	Yes	71.6	J	Yes	71.6	J	Yes	84.6	J	Yes	86.9	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	15.9	J	Yes	22.3	J	Yes	28.8	J	Yes	107		Yes	107		Yes	107		Yes	123	J	Yes	129	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	12.9	J	Yes	14.3	J	Yes	15.7	J	Yes	27.1	J	Yes	27.6	J	Yes	28.2	J	Yes	40	J	Yes	41.9	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	2.07	J	Yes	3.37	J	Yes	4.67	J	Yes	13.4	J	Yes	14.9	J	Yes	16.3	J	Yes	15.5	J	Yes	18.3	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	2.06	J	Yes	8.11	J	Yes	14.2	J	Yes	9.4	J	Yes	10.7	J	Yes	12	J	Yes	11.5	J	Yes	18.8	J

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	.5DL)	Total PAHs (ND=DL)		
						µg/kg		
					Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	Yes	63.9	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	Yes	59.1	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	Yes	93.9	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	Yes	76.7	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	Yes	156	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	Yes	48.6	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	Yes	42.4	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	Yes	17.2	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	Yes	32.4	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	Yes	100	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	Yes	48.2	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	Yes	59.5	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	Yes	123	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	Yes	95.2	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	Yes	136	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	Yes	52.7	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	Yes	53.4	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	Yes	14.8	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	Yes	43.8	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	Yes	125	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	Yes	92.7	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	Yes	82.2	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	Yes	36.7	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	Yes	52.8	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	Yes	47.4	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	Yes	33.2	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	Yes	56.7	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	Yes	59.3	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	Yes	108	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	Yes	85	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	Yes	146	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	Yes	50.2	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	Yes	47.4	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	Yes	16.1	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	Yes	37.1	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	Yes	110	J	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	Yes	97.9	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	Yes	110	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	Yes	118	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	Yes	48.6	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	Yes	52.9	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	Yes	11.8	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	Yes	19.6	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes	88.7	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	Yes	1090	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes	189	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes	324	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes	44.2	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	Yes	90.7	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes	762	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes	419	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes	774	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	Yes	308	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes	361	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes	190	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes	1650	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes	1390	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes	129	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes	122	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes	100	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes	365	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes	139	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes	124	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes	135	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes	522	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	Yes	200	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes	459	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes	494	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes	483	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes	1070	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes	329	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes	646	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes	256	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes	284	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes	199	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes	47.3	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	Yes	89.1	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes	136	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	Yes	43.9	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	Yes	21	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	Yes	26.1	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					1-Methylnaphthalene			1-Methylphenanthrene			2,3,5-Trimethylnaphthalene			2,6-Dimethylnaphthalene		
					µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	15.7		Yes	1	J	Yes	7.3		Yes	9.2		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	14		Yes	6.7	J	Yes	24		Yes	16		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	4.4	J	Yes	0.41	J	Yes	1.8	J	Yes	1.7	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	13.4	J	Yes	0.84	J	Yes	5.3		Yes	6.5		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	21.3		Yes	1.45	J	Yes	7.5		Yes	11		Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	33.1		Yes	4.5		Yes	21.4		Yes	27		Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	2.7		Yes	0.47	J	Yes	2.8		Yes	2.8		Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	19		Yes	2.6	J	Yes	13		Yes	16		Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	3.9	UJ	No	1.05	J	Yes	2.21	J	Yes	2.3	UJ	No
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	33.4	J	Yes	1.42	J	Yes	9.3	J	Yes	10.2	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	16.2		Yes	0.85	J	Yes	13.2		Yes	11.1	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	43	J	Yes	1.6	J	Yes	25.8	J	Yes	26.3	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	33.7		Yes	2.4		Yes	19.2		Yes	22.3	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	1.8	J	Yes	0.23	U	No	0.9	J	Yes	1.03	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	11.3	J	Yes	0.45	J	Yes	4.7	J	Yes	5.5	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	8.9	J	Yes	0.44	J	Yes	4.2	J	Yes	5.8	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	11	J	Yes	0.57	J	Yes	8.5	J	Yes	7.21	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	30	J	Yes	1.1	J	Yes	17	J	Yes	18	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	23	J	Yes	1.6	J	Yes	13	J	Yes	15	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	20.1	J	Yes	14.4		Yes	12.8	J	Yes	14.1	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	31.6	J	Yes	5.3		Yes	25.8	J	Yes	29.1	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	12.5	UJ	No	5.8		Yes	10.6	J	Yes	12.9	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	15.5	J	Yes	2.7		Yes	9.4	J	Yes	11.8	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	24.2	J	Yes	6		Yes	15.5	J	Yes	19.6	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	18.1	J	Yes	2.7		Yes	15.8	J	Yes	17.8	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	23.1	J	Yes	5.6		Yes	14.5	J	Yes	18.5	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	7.9	UJ	No	2.8		Yes	7.3	J	Yes	6.3	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	3.4	UJ	No	0.35	J	Yes	2.15	J	Yes	1.95	UJ	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	3.9	UJ	No	0.54	J	Yes	2.8	J	Yes	3.3	UJ	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	2.6	UJ	No	0.64	J	Yes	2.7	J	Yes	2.6	UJ	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	3.1	UJ	No	0.64	J	Yes	1.55	J	Yes	2.2	UJ	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	4.4	UJ	No	0.77	J	Yes	2.7	J	Yes	2.6	UJ	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	5.3	UJ	No	0.54	J	Yes	4.1	J	Yes	4.5	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	5	UJ	No	1.11	J	Yes	3	J	Yes	3.7	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	1.8	UJ	No	0.29	U	No	1.34	J	Yes	1.21	UJ	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	13	J	Yes	9.1	J	Yes	8.81	J	Yes	9.18	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	20	J	Yes	3.4	J	Yes	17	J	Yes	18	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	4.3	UJ	No	3.8	J	Yes	7.6	J	Yes	8.4	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	9.8	J	Yes	1.9	J	Yes	6.2	J	Yes	7.42	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	15	J	Yes	3.9	J	Yes	10	J	Yes	12	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	12	J	Yes	1.8	J	Yes	11	J	Yes	12	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	14	J	Yes	3.7	J	Yes	9.7	J	Yes	12	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	2.7	UJ	No	1.7		Yes	4.8	J	Yes	3.9	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	80	J	Yes	13.5		Yes	26.2	J	Yes	43.1	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	132	J	Yes	7.6		Yes	23.2	J	Yes	56.1	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	64.4	J	Yes	6.9		Yes	14.5	J	Yes	27.9	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	48.9	J	Yes	1.3	J	Yes	14.8	J	Yes	17.7	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	10.9		Yes	0.94	U	No	3.1		Yes	4.9		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	7.3		Yes	0.66	J	Yes	2.6		Yes	4.6		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	11.2		Yes	0.94	J	Yes	2.4		Yes	3.7		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	9.2		Yes	0.7	J	Yes	1.83	J	Yes	3.6		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	5		Yes	0.43	U	No	1.5	J	Yes	2.17	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	1.6	J	Yes	0.25	U	No	0.78	J	Yes	0.62	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	48	J	Yes	7.8	J	Yes	16	J	Yes	26	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	88.6	J	Yes	5.2	J	Yes	16	J	Yes	37	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	40	J	Yes	4.2	J	Yes	9.01	J	Yes	17	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	35	J	Yes	0.95	J	Yes	11	J	Yes	12.7	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	7	J	Yes	0.33	U	No	2.1	J	Yes	3.1	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	2-Methylnaphthalene µg/kg			Acenaphthene µg/kg			Acenaphthylene µg/kg			Anthracene µg/kg		
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	11.6	J	Yes	32.5		Yes	6.2		Yes	8.1		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	7.9	J	Yes	41		Yes	13		Yes	13		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	3.6	J	Yes	11	J	Yes	9.3	J	Yes	5.4		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	8.86	J	Yes	28		Yes	5.8	J	Yes	6.1	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	15.7	J	Yes	40.4		Yes	8.2		Yes	13		Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	16.3	J	Yes	73.3		Yes	69.2		Yes	58.7		Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	2	J	Yes	6.9		Yes	5.4		Yes	5.3		Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	9.6	J	Yes	42		Yes	39		Yes	34		Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	2.15	UJ	No	6		Yes	17.1	U	No	6.4		Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	31.2	J	Yes	29	J	Yes	14.7	UJ	No	14.2		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	17.6		Yes	26.2		Yes	50.7	U	No	10.5		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	33.1	J	Yes	55.5	J	Yes	24.3	UJ	No	13.6		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	23.2		Yes	48.6		Yes	17.1	U	No	17.2		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	1.76	J	Yes	2.6		Yes	25	U	No	0.82	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	10.5	J	Yes	12.4	J	Yes	96.2	UJ	No	1.59	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	6.8	J	Yes	12.6	J	Yes	40.1	UJ	No	1.66	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	11.5	J	Yes	17		Yes	20.4	U	No	6.8	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	23.8	J	Yes	37.8	J	Yes	26.9	UJ	No	8.66	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	16	J	Yes	33.4	J	Yes	13.4	UJ	No	10.6	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	15.6	J	Yes	24.3		Yes	50.7	U	No	43.2		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	25.3	J	Yes	48.8		Yes	29.6	U	No	39.2		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	8.8	UJ	No	20.8		Yes	17.8	U	No	30.9		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	10.5	J	Yes	21.1		Yes	20.5	U	No	23.5		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	13.8	J	Yes	34.8		Yes	28.9	U	No	37.7		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	9.5	UJ	No	34.4		Yes	17.8	U	No	31.1		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	14.5	J	Yes	38.2		Yes	23.1	U	No	33.2		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	7.2	UJ	No	14.5		Yes	22.7	U	No	25.4		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	2.47	UJ	No	4.4		Yes	18.8	U	No	4.5		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	3.2	UJ	No	6.3		Yes	14.6	U	No	5.7		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	1.66	UJ	No	3.9		Yes	15.9	U	No	4.7		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	1.82	UJ	No	4.7		Yes	3.2	U	No	4.4		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	2.5	UJ	No	6.6		Yes	3.5	U	No	6.2		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	2.9	UJ	No	9.3		Yes	3.5	U	No	6.8		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	3.4	UJ	No	8.1		Yes	5	U	No	6.4		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	1.38	UJ	No	2.8		Yes	2.3	U	No	4.2		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	10.2	J	Yes	17		Yes	19.4	U	No	29		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	16	J	Yes	32		Yes	11.9	U	No	26		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	3	UJ	No	14		Yes	8.53	U	No	21		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	6.58	J	Yes	14		Yes	6.7	U	No	16		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	8.8	J	Yes	24		Yes	9.4	U	No	25		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	3.4	UJ	No	24		Yes	6	U	No	21		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	9.1	J	Yes	26		Yes	7.7	U	No	22		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	2.4	UJ	No	9.6		Yes	7.1	U	No	17		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	48.1	J	Yes	135	J	Yes	83.6	J	Yes	57.7		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	60.7	J	Yes	159	J	Yes	68.9	J	Yes	38.1		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	37.9	J	Yes	78.4	J	Yes	59.9	J	Yes	20.4		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	27.9	J	Yes	80.6	J	Yes	27.8	J	Yes	24.8		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	10	J	Yes	18.9	J	Yes	8.4	J	Yes	11.3		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	4.5	J	Yes	11.8		Yes	4.5		Yes	6		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	4.3		Yes	13.1		Yes	4.8		Yes	5.9		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	4.7	J	Yes	9.2	J	Yes	4.5	J	Yes	3		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	2.8	J	Yes	10.5		Yes	3.7		Yes	4.7		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	1.3	J	Yes	3.2		Yes	1.36	J	Yes	2.4		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	29	J	Yes	80.1	J	Yes	48	J	Yes	35		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	40	J	Yes	107	J	Yes	46	J	Yes	27		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	24	J	Yes	48	J	Yes	36	J	Yes	13		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	20	J	Yes	58	J	Yes	20	J	Yes	18		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	6.4	J	Yes	12	J	Yes	5.5	J	Yes	7.6		Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	Benzo(a)anthracene µg/kg			Benzo(a)pyrene µg/kg			Benzo(b/j)fluoranthene µg/kg			Benzo(e)pyrene µg/kg		
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.2	J	Yes	0.32	U	No	0.16	U	No	0.26	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	0.55	J	Yes	0.3	U	No	0.15	U	No	0.25	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	0.4	J	Yes	0.19	U	No	0.11	U	No	0.39	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	0.71	J	Yes	0.66	U	No	0.39	UJ	No	0.54	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	0.39	J	Yes	1.1	U	No	0.85	UJ	No	0.83	U	No
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	2.8		Yes	1.5	U	No	0.5	U	No	1.28	J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.9	U	No	0.9	U	No	0.25	U	No	0.58	U	No
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	1.7		Yes	0.61	U	No	0.19	U	No	0.82	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	7.3	J	Yes	5.7		Yes	10.2	J	Yes	6.1		Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	1.72	J	Yes	1	J	Yes	1.87	J	Yes	1.43	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	0.38	J	Yes	0.33	U	No	0.23	J	Yes	0.36	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	0.44	J	Yes	0.38	U	No	0.23	UJ	No	0.38	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	0.59	J	Yes	0.6	U	No	0.37	UJ	No	0.59	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.26	UJ	No	0.33	U	No	0.19	UJ	No	0.33	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.29	UJ	No	0.22	U	No	0.11	UJ	No	0.21	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.26	UJ	No	0.44	U	No	0.24	UJ	No	0.43	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	0.28	J	Yes	0.17	U	No	0.18	J	Yes	0.28	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	0.32	J	Yes	0.16	U	No	0.09	UJ	No	0.16	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	0.4	J	Yes	0.27	U	No	0.16	UJ	No	0.26	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	35.7	J	Yes	32.7		Yes	42.9	J	Yes	34		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	4.9	J	Yes	3.4		Yes	4.4	J	Yes	3.3		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	10.3	J	Yes	10.2		Yes	14.5	J	Yes	10.8		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	6.3	J	Yes	5		Yes	9.1	J	Yes	7.1		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	10.8	J	Yes	11.7		Yes	16.2	J	Yes	16.4		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	2.9	J	Yes	2	J	Yes	3.18	J	Yes	2.5	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	6.6	J	Yes	5		Yes	10.2	J	Yes	8.1		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	10.7	J	Yes	9.6		Yes	14.1	J	Yes	10.6		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.35	J	Yes	0.25	U	No	0.2	UJ	No	0.28	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.31	J	Yes	0.38	U	No	0.23	U	No	0.37	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.27	J	Yes	0.49	U	No	0.29	U	No	0.48	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.3	U	No	0.58	U	No	0.34	U	No	0.57	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.37	J	Yes	0.59	U	No	0.36	U	No	0.58	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.6	U	No	0.32	U	No	0.2	U	No	0.32	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.38	U	No	0.53	U	No	0.33	U	No	0.35	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.23	U	No	0.69	U	No	0.39	U	No	0.68	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	22	J	Yes	20		Yes	27	J	Yes	21		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	3.1	J	Yes	2.1		Yes	2.7	J	Yes	2.1		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	6.4	J	Yes	6.4		Yes	9	J	Yes	6.7		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	3.8	J	Yes	3.1		Yes	5.4	J	Yes	4.3		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	6.7	J	Yes	7.2		Yes	9.9	J	Yes	10		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	1.9	J	Yes	1.3	J	Yes	1.9	J	Yes	1.6	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	3.9	J	Yes	3		Yes	6	J	Yes	4.8		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	6.3	J	Yes	5.7		Yes	8.3	J	Yes	6.3		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	31.5		Yes	45	J	Yes	54.5		Yes	36.6		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	7.5		Yes	12.5	J	Yes	12.9		Yes	10.3		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	10.1		Yes	17.6	J	Yes	18.4		Yes	16.1		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	1.8	J	Yes	1.8	U	No	2.98	J	Yes	2.2	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	1.17	J	Yes	2.2	U	No	1.3	J	Yes	1.4	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.4	U	No	1.8	UJ	No	0.39	U	No	1.1	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.96	U	No	0.66	UJ	No	0.35	U	No	0.52	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.52	U	No	1.2	U	No	0.36	U	No	0.75	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.59	U	No	1.2	U	No	0.36	U	No	0.76	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.8	U	No	0.63	UJ	No	0.33	U	No	0.5	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	18		Yes	25	J	Yes	30		Yes	21		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	5		Yes	8.1	J	Yes	8.3		Yes	6.7		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	5.8		Yes	10	J	Yes	11		Yes	9.3		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	1.3	J	Yes	0.8	U	No	2.1	J	Yes	1.6	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.85	J	Yes	0.78	UJ	No	0.83	J	Yes	0.51	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

					Benzo(g,h,i)perylene			Benzo(k)fluoranthene			Chrysene			Dibenzo(a,h)anthracene		
					µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.83	UJ	No	0.18	U	No	1.55	J	Yes	0.67	UJ	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	0.38	UJ	No	0.17	U	No	4.1	J	Yes	0.59	UJ	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	0.25	J	Yes	0.12	U	No	2	J	Yes	0.32	UJ	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	0.39	U	No	0.53	U	No	2.7	J	Yes	0.53	UJ	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	0.55	UJ	No	1.3	U	No	3.2	J	Yes	0.39	UJ	No
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	0.56	UJ	No	0.92	U	No	1.5	J	Yes	0.78	UJ	No
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.34	UJ	No	0.48	U	No	1.2	U	No	1.2	UJ	No
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	0.23	UJ	No	0.36	U	No	1.1	J	Yes	0.49	UJ	No
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	4.5		Yes	3.2		Yes	16.7	J	Yes	0.98	J	Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	0.91	J	Yes	0.46	J	Yes	3.1	J	Yes	0.56	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	0.24	J	Yes	0.21	U	No	0.91	J	Yes	0.22	UJ	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	0.36	U	No	0.23	U	No	1.12	J	Yes	0.32	UJ	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	0.38	U	No	0.37	U	No	1.39	J	Yes	0.45	UJ	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.3	U	No	0.19	U	No	0.25	UJ	No	0.28	UJ	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.14	U	No	0.11	U	No	0.28	UJ	No	0.097	UJ	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.44	U	No	0.24	U	No	0.24	UJ	No	0.24	UJ	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	0.21	J	Yes	0.1	U	No	0.61	J	Yes	0.12	UJ	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	0.13	U	No	0.09	U	No	0.72	J	Yes	0.11	UJ	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	0.2	U	No	0.16	U	No	0.85	J	Yes	0.18	UJ	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	23.9		Yes	14.1		Yes	47.9	J	Yes	5.2	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	2		Yes	1.16	J	Yes	5.1	J	Yes	0.43	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	7.4		Yes	3.8		Yes	17.1	J	Yes	1.31	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	4.6		Yes	2.33	J	Yes	8.1	J	Yes	1.5	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	7.7		Yes	4.2		Yes	13.1	J	Yes	1.9	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	1.41	J	Yes	0.89	J	Yes	2.38	J	Yes	1.8	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	4.3		Yes	2.7		Yes	7.2	J	Yes	1	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	7.8		Yes	4.1		Yes	10.5	J	Yes	2.3	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.26	U	No	0.14	U	No	0.54	UJ	No	0.2	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.15	U	No	0.23	U	No	0.66	UJ	No	0.17	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.33	U	No	0.29	U	No	0.11	U	No	0.19	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.27	U	No	0.34	U	No	0.58	UJ	No	0.22	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.51	U	No	0.36	U	No	0.66	UJ	No	0.34	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.32	U	No	0.2	U	No	0.76	UJ	No	0.46	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.54	U	No	0.32	U	No	0.93	UJ	No	0.47	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.41	U	No	0.39	U	No	0.47	UJ	No	0.47	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	15		Yes	8.8		Yes	30	J	Yes	3.3	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	1.2		Yes	0.75	J	Yes	3.2	J	Yes	0.16	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	4.6		Yes	2.4		Yes	11	J	Yes	0.84	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	2.8		Yes	1.4	J	Yes	4.9	J	Yes	0.49	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	4.8		Yes	2.6		Yes	8	J	Yes	1.2	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	0.91	J	Yes	0.57	J	Yes	1.6	J	Yes	0.63	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	2.6		Yes	1.6		Yes	4.4	J	Yes	0.68	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	4.6		Yes	2.5		Yes	6.2	J	Yes	0.77	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	25.2	J	Yes	24.4	J	Yes	49.4	J	Yes	4.2	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	8.2	J	Yes	5.3	J	Yes	10.8	J	Yes	2.3	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	8.7	J	Yes	7.8	J	Yes	15.5	J	Yes	2.8	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	1.45	UJ	No	1.3	J	Yes	2.19	J	Yes	1	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	0.82	UJ	No	1.5	U	No	1.6	J	Yes	0.7	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.57	U	No	0.73	U	No	0.52	U	No	1.3	UJ	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.47	J	Yes	0.56	U	No	1.2	U	No	0.55	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.51	U	No	0.68	U	No	0.77	U	No	1.3	UJ	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.53	UJ	No	0.69	U	No	0.87	U	No	1.3	UJ	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.7	J	Yes	0.5	U	No	1	U	No	0.47	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	14	J	Yes	14	J	Yes	27	J	Yes	2.6	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	5.4	J	Yes	3.5	J	Yes	7.1	J	Yes	0.84	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	5	J	Yes	4.6	J	Yes	9	J	Yes	1.1	UJ	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	0.58	UJ	No	0.99	J	Yes	1.6	J	Yes	0.55	UJ	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.53	J	Yes	0.54	U	No	1.1	J	Yes	0.3	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

					Dibenzothiophene			Fluoranthene			Fluorene			Indeno(1,2,3-cd)pyrene		
					µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.953	J	Yes	4.1	J	Yes	5.9		Yes	0.81	UJ	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	3.1	J	Yes	22	J	Yes	16		Yes	0.4	UJ	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	0.0971	U	No	1.53	J	Yes	1.8	J	Yes	0.2	UJ	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	0.592	J	Yes	4.1	J	Yes	3.9	J	Yes	0.39	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	1.46	J	Yes	6.7	J	Yes	14		Yes	0.58	UJ	No
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	4.4		Yes	14.6		Yes	27.2	J	Yes	0.44	U	No
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.477	J	Yes	1.43	J	Yes	2.9	J	Yes	0.52	U	No
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	2.6	J	Yes	8.46	J	Yes	16	J	Yes	0.24	U	No
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.833	J	Yes	17		Yes	3.1	J	Yes	3.7		Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	1.56	J	Yes	9		Yes	7.9	J	Yes	0.54	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	2.19	J	Yes	5.5		Yes	10		Yes	0.22	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	2.9		Yes	7.3		Yes	14.5		Yes	0.34	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	4.1		Yes	9.8		Yes	20.9		Yes	0.4	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.287	J	Yes	0.66	J	Yes	1.32	J	Yes	0.28	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.618	J	Yes	1.45	J	Yes	2.7		Yes	0.13	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.68	J	Yes	1.51	J	Yes	2.9		Yes	0.43	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	1.46	J	Yes	3.6	J	Yes	6.65	J	Yes	0.12	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	2	J	Yes	4.9	J	Yes	9.7		Yes	0.13	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	2.7	J	Yes	6.3	J	Yes	13		Yes	0.21	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	3.4		Yes	60.9		Yes	16.7	J	Yes	16.9		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	6		Yes	20.5		Yes	28.9	J	Yes	1.58	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	3.9		Yes	30.7		Yes	15	J	Yes	5.5		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	2.27	J	Yes	18.1		Yes	12.2	J	Yes	2.8		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	4.6		Yes	31		Yes	22.7	J	Yes	6.6	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	5.1		Yes	17.7		Yes	21	J	Yes	0.87	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	4.3		Yes	32.3		Yes	21	J	Yes	3.2		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	1.73	J	Yes	21.1		Yes	8	J	Yes	4.4		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.431	J	Yes	2	J	Yes	2.41	J	Yes	0.24	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.879	J	Yes	2.9		Yes	4.1	J	Yes	0.14	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.764	J	Yes	3.5		Yes	2.9	J	Yes	0.33	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.543	J	Yes	2.8		Yes	2.7	J	Yes	0.28	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.031	U	No	3.3		Yes	4.3	J	Yes	0.53	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	1.32	J	Yes	3.7		Yes	5.1	J	Yes	0.34	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	1.02	J	Yes	6.8		Yes	4.6	J	Yes	0.33	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.385	J	Yes	1.6	J	Yes	1.75	J	Yes	0.44	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	2.3	J	Yes	38.8	J	Yes	11.3	J	Yes	11		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	4	J	Yes	14		Yes	19	J	Yes	0.99	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	2.7	J	Yes	20		Yes	10	J	Yes	3.4		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	1.56	J	Yes	12		Yes	8.3	J	Yes	1.7		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	2.8		Yes	20		Yes	15	J	Yes	4.1	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	3.6	J	Yes	12		Yes	15	J	Yes	0.59	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	2.9	J	Yes	22		Yes	14	J	Yes	1.9		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	1.17	J	Yes	13	J	Yes	5.4	J	Yes	2.7		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	6.4		Yes	85.8		Yes	26.3	J	Yes	17.4	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	4.4		Yes	24.3		Yes	24.5	J	Yes	4.9	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	2.6		Yes	26.6		Yes	11	J	Yes	7.7	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	3		Yes	10.5		Yes	16	J	Yes	1.22	UJ	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	0.845	J	Yes	4.1		Yes	4.3	J	Yes	0.76	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.951	J	Yes	2.6		Yes	4.4	J	Yes	0.78	UJ	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.704	J	Yes	3	J	Yes	3.9		Yes	0.36	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.468	J	Yes	1.79	J	Yes	2.6	J	Yes	0.65	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.645	J	Yes	1.66	J	Yes	3.3	J	Yes	0.66	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.172	U	No	0.55	J	Yes	1	J	Yes	0.77	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	4	J	Yes	49		Yes	17	J	Yes	9.8	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	3.1	J	Yes	17	J	Yes	17	J	Yes	3.2	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	1.7	J	Yes	15.9	J	Yes	7.4	J	Yes	4.5	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	2.2	J	Yes	7.64	J	Yes	12	J	Yes	0.52	UJ	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.531	J	Yes	2.6	J	Yes	2.9	J	Yes	0.54	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	Naphthalene µg/kg			Perylene µg/kg			Phenanthrene µg/kg			Pyrene µg/kg			Total benzofluoranthenes µg/kg		
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	5.8	J	Yes	0.33	U	No	6.1		Yes	2.7		Yes	0.18	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	3.5	J	Yes	0.26	U	No	31		Yes	17		Yes	0.17	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	2.9	J	Yes	0.17	U	No	1.6		Yes	1.16	J	Yes	0.12	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	5.7	J	Yes	0.58	U	No	4.8	J	Yes	2.9	J	Yes	0.53	UJ	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	9.2	J	Yes	0.98	U	No	10		Yes	3.9	J	Yes	1.3	UJ	No
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	12.8		Yes	0.79	U	No	20.2		Yes	16.2		Yes	0.92	U	No
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	2.6	U	No	0.36	U	No	2.23	J	Yes	1.75	J	Yes	0.48	U	No
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	7.4		Yes	0.29	U	No	11.8	J	Yes	9.47	J	Yes	0.36	U	No
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	2.7	UJ	No	1.42	J	Yes	9.9		Yes	13.1		Yes	13.4	J	Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	22.1	UJ	No	0.37	J	Yes	9		Yes	7.2		Yes	2.33	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	7.9		Yes	0.23	U	No	8.6		Yes	2.9		Yes	0.23	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	18.7	J	Yes	0.25	U	No	13.6		Yes	4.4		Yes	0.23	UJ	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	10.6		Yes	0.4	U	No	19.5		Yes	5.8		Yes	0.37	UJ	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	1.5	U	No	0.22	U	No	1.25	U	No	0.49	U	No	0.19	UJ	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	7.3	J	Yes	0.14	U	No	2.8		Yes	1.06	J	Yes	0.11	UJ	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	4.5	J	Yes	0.28	U	No	3.5		Yes	0.95	U	No	0.24	UJ	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	5.1		Yes	0.11	U	No	5.5		Yes	1.9		Yes	0.18	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	14	J	Yes	0.1	U	No	9.2		Yes	3	J	Yes	0.09	UJ	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	8	J	Yes	0.17	U	No	13		Yes	3.6		Yes	0.16	UJ	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	13.5	UJ	No	6.4		Yes	30.9		Yes	66.4		Yes	57	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	5.4	UJ	No	0.63	J	Yes	41.2		Yes	11.1		Yes	5.56	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	5.2	UJ	No	2.8		Yes	32.1		Yes	23.8		Yes	18.3	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	7.7	UJ	No	1.37	J	Yes	17.6		Yes	13.8		Yes	11.4	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	8.5	UJ	No	2.2	J	Yes	33.3		Yes	22.8		Yes	20.4	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	5.3	UJ	No	0.71	U	No	29.7		Yes	8.9		Yes	4.07	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	8.7	UJ	No	1.3	J	Yes	32.7		Yes	20.5		Yes	12.9	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	6.6	UJ	No	2.11	J	Yes	14.3		Yes	18.2		Yes	18.2	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	1.8	UJ	No	0.16	U	No	2.6		Yes	1.05	U	No	0.2	UJ	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	1.3	UJ	No	0.26	U	No	5.5		Yes	1.32	U	No	0.23	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	1.49	UJ	No	0.28	U	No	5.5		Yes	2.06	J	Yes	0.29	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	1.54	UJ	No	0.37	U	No	3.9		Yes	1.55	U	No	0.34	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	1.56	UJ	No	0.38	U	No	5.9		Yes	1.81	J	Yes	0.36	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	2.1	UJ	No	0.21	U	No	7.3		Yes	1.43	U	No	0.2	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	1.9	U	No	0.54	U	No	7		Yes	3.5		Yes	0.33	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	1.21	UJ	No	0.43	U	No	2.37	J	Yes	0.79	U	No	0.39	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	4.6	UJ	No	4		Yes	20		Yes	41.7		Yes	36	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	1.9	UJ	No	0.43	J	Yes	27		Yes	7.01		Yes	3.4	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	1.9	UJ	No	1.8		Yes	22		Yes	15.4	J	Yes	11	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	2.6	UJ	No	0.89	J	Yes	12		Yes	8.47		Yes	6.8	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	2.9	UJ	No	1.4	J	Yes	22		Yes	14.5	J	Yes	12	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	2	UJ	No	0.25	U	No	21		Yes	5.6		Yes	2.5	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	2.9	UJ	No	0.87	J	Yes	22		Yes	13		Yes	7.6	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	2.2	UJ	No	1.3	J	Yes	9.33	J	Yes	11		Yes	11	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	44.2	J	Yes	11.1		Yes	74.4		Yes	73.6		Yes	78.9	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	47.6	J	Yes	2.5		Yes	33.6		Yes	20.8		Yes	18.2	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	35.1	J	Yes	3.5		Yes	27.1		Yes	25.1		Yes	26.2	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	43.1	J	Yes	1.1	U	No	14.9		Yes	6.4		Yes	4.28	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	13.2		Yes	1.2	U	No	4.8		Yes	3		Yes	1.3	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	5.4	U	No	0.66	U	No	5.3		Yes	1.88	J	Yes	0.73	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	3.1	UJ	No	0.45	U	No	5.1		Yes	2.2		Yes	0.56	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	6.6	UJ	No	0.56	U	No	3.8		Yes	1.31	J	Yes	0.68	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	5.9		Yes	0.58	U	No	3		Yes	1.32	J	Yes	0.69	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	3.3	UJ	No	0.42	U	No	0.87	U	No	0.82	U	No	0.5	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	26	J	Yes	6.3		Yes	44		Yes	41.6	J	Yes	44	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	31	J	Yes	1.7		Yes	23		Yes	14		Yes	12	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	21	J	Yes	2.1		Yes	17		Yes	14.8	J	Yes	15	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	31	J	Yes	0.47	U	No	11		Yes	4.8	J	Yes	3	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	8.4		Yes	0.44	U	No	3		Yes	1.9		Yes	0.87	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	Total benzofluoranthenes (ND=0.5DL) µg/kg			Total benzofluoranthenes (ND=DL) µg/kg			Total carcinogenic PAHs µg/kg			Total carcinogenic PAHs (ND=0.5DL) µg/kg			Total carcinogenic PAHs (ND=DL) µg/kg		
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.18	U	No	0.18	U	No	0.0216	J	Yes	0.566	J	Yes	1.11	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	0.17	U	No	0.17	U	No	0.0573	J	Yes	1	J	Yes	1.96	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	0.12	U	No	0.12	U	No	0.0392	J	Yes	0.58	J	Yes	1.12	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	0.53	UJ	No	0.53	UJ	No	0.32	J	Yes	1.1	J	Yes	1.9	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	1.3	UJ	No	1.3	UJ	No	0.00886	J	Yes	1.64	J	Yes	3.28	J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	0.92	U	No	0.92	U	No	0.282	J	Yes	1.47	J	Yes	2.66	J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.48	U	No	0.48	U	No	1.2	UJ	No	1.2	UJ	No	1.2	UJ	No
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	0.36	U	No	0.36	U	No	0.43	J	Yes	1.1	J	Yes	1.7	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	13.4	J	Yes	13.4	J	Yes	8.85	J	Yes	8.85	J	Yes	8.85	J	Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	2.33	J	Yes	2.33	J	Yes	1.42	J	Yes	1.7	J	Yes	1.98	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	0.335	J	Yes	0.44	J	Yes	0.0619	J	Yes	0.349	J	Yes	0.636	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	0.23	UJ	No	0.23	UJ	No	0.0451	J	Yes	0.425	J	Yes	0.804	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	0.37	UJ	No	0.37	UJ	No	0.0604	J	Yes	0.626	J	Yes	1.19	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.19	UJ	No	0.19	UJ	No	0.33	UJ	No	0.33	UJ	No	0.33	UJ	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.11	UJ	No	0.11	UJ	No	0.22	UJ	No	0.22	UJ	No	0.22	UJ	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.24	UJ	No	0.24	UJ	No	0.44	UJ	No	0.44	UJ	No	0.44	UJ	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	0.24	J	Yes	0.31	J	Yes	0.1	J	Yes	0.28	J	Yes	0.45	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	0.09	UJ	No	0.09	UJ	No	0.072	J	Yes	0.3	J	Yes	0.52	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	0.16	UJ	No	0.16	UJ	No	0.13	J	Yes	0.45	J	Yes	0.78	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	57	J	Yes	57	J	Yes	47.6	J	Yes	47.6	J	Yes	47.6	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	5.56	J	Yes	5.56	J	Yes	4.5	J	Yes	4.72	J	Yes	4.93	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	18.3	J	Yes	18.3	J	Yes	14.6	J	Yes	14.6	J	Yes	14.6	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	11.4	J	Yes	11.4	J	Yes	6.85	J	Yes	7.6	J	Yes	8.35	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	20.4	J	Yes	20.4	J	Yes	17	J	Yes	17	J	Yes	17	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	4.07	J	Yes	4.07	J	Yes	2.71	J	Yes	3.61	J	Yes	4.51	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	12.9	J	Yes	12.9	J	Yes	8.03	J	Yes	8.03	J	Yes	8.03	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	18.2	J	Yes	18.2	J	Yes	12.6	J	Yes	13.7	J	Yes	14.9	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.2	UJ	No	0.2	UJ	No	0.035	J	Yes	0.283	J	Yes	0.531	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.23	U	No	0.23	U	No	0.031	J	Yes	0.326	J	Yes	0.621	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.29	U	No	0.29	U	No	0.027	J	Yes	0.4	J	Yes	0.772	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.34	U	No	0.34	U	No	0.58	UJ	No	0.58	UJ	No	0.58	UJ	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.36	U	No	0.36	U	No	0.037	J	Yes	0.549	J	Yes	1.06	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.2	U	No	0.2	U	No	0.46	UJ	No	0.46	UJ	No	0.46	UJ	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.33	U	No	0.33	U	No	0.53	UJ	No	0.53	UJ	No	0.53	UJ	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.39	U	No	0.39	U	No	0.69	UJ	No	0.69	UJ	No	0.69	UJ	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	36	J	Yes	36	J	Yes	29.8	J	Yes	29.9	J	Yes	29.9	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	3.4	J	Yes	3.4	J	Yes	2.75	J	Yes	3	J	Yes	3.24	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	11	J	Yes	11	J	Yes	8.97	J	Yes	9.12	J	Yes	9.26	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	6.8	J	Yes	6.8	J	Yes	4.2	J	Yes	4.6	J	Yes	5.1	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	12	J	Yes	12	J	Yes	10.3	J	Yes	10.5	J	Yes	10.7	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	2.5	J	Yes	2.5	J	Yes	1.7	J	Yes	2.3	J	Yes	2.8	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	7.6	J	Yes	7.6	J	Yes	4.8	J	Yes	4.8	J	Yes	4.8	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	11	J	Yes	11	J	Yes	7.5	J	Yes	8.1	J	Yes	8.8	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	78.9	J	Yes	78.9	J	Yes	59.8	J	Yes	59.8	J	Yes	59.8	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	18.2	J	Yes	18.2	J	Yes	15.1	J	Yes	16.2	J	Yes	17.4	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	26.2	J	Yes	26.2	J	Yes	21.3	J	Yes	22.7	J	Yes	24.1	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	4.28	J	Yes	4.28	J	Yes	0.493	J	Yes	1.95	J	Yes	3.42	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	2.05	J	Yes	2.8	J	Yes	0.249	J	Yes	1.74	J	Yes	3.24	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.73	U	No	0.73	U	No	1.8	UJ	No	1.8	UJ	No	1.8	UJ	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.56	U	No	0.56	U	No	0.66	UJ	No	0.66	UJ	No	0.66	UJ	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.68	U	No	0.68	U	No	1.3	UJ	No	1.3	UJ	No	1.3	UJ	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.69	U	No	0.69	U	No	1.3	UJ	No	1.3	UJ	No	1.3	UJ	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.5	U	No	0.5	U	No	0.077	J	Yes	0.687	J	Yes	1.3	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	44	J	Yes	44	J	Yes	34	J	Yes	34	J	Yes	34	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	12	J	Yes	12	J	Yes	9.8	J	Yes	11	J	Yes	11	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	15	J	Yes	15	J	Yes	12	J	Yes	13	J	Yes	14	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	3	J	Yes	3	J	Yes	0.54	J	Yes	1.5	J	Yes	2.5	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	1.3	J	Yes	1.7	J	Yes	0.178	J	Yes	1.3	J	Yes	2.44	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	Total HPAHs µg/kg			Total HPAHs (ND=0.5DL) µg/kg			Total HPAHs (ND=DL) µg/kg			Total LPAHs µg/kg			Total LPAHs (ND=0.5DL) µg/kg			Total LPAHs (ND=DL) µg/kg			Total PAHs µg/kg			Total PAHs (ND=0 µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	8.55	J	Yes	10	J	Yes	11.5	J	Yes	64.6	J	Yes	64.6	J	Yes	64.6	J	Yes	73.2	J	Yes	74.6	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	43.4	J	Yes	45.4	J	Yes	47.4	J	Yes	118	J	Yes	118	J	Yes	118	J	Yes	160	J	Yes	163	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	5.08	J	Yes	6.26	J	Yes	7.44	J	Yes	31.2	J	Yes	31.6	J	Yes	32	J	Yes	36.3	J	Yes	37.9	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	9.91	J	Yes	13.3	J	Yes	16.6	J	Yes	54.1	J	Yes	54.4	J	Yes	54.8	J	Yes	64	J	Yes	67.7	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	13.8	J	Yes	18.9	J	Yes	24	J	Yes	95.1	J	Yes	95.1	J	Yes	95.1	J	Yes	109	J	Yes	114	J
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	35.1	J	Yes	37.5	J	Yes	39.8	J	Yes	261	J	Yes	261	J	Yes	261	J	Yes	297	J	Yes	299	J
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	3.18	J	Yes	6.08	J	Yes	8.97	J	Yes	22.7	J	Yes	24	J	Yes	25.3	J	Yes	25.9	J	Yes	30.1	J
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	20.2	J	Yes	22.9	J	Yes	25.4	J	Yes	150	J	Yes	151	J	Yes	151	J	Yes	171	J	Yes	174	J
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	82.4	J	Yes	82.4	J	Yes	82.4	J	Yes	25.4	J	Yes	35.3	J	Yes	45.2	J	Yes	108	J	Yes	118	J
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	25.8	J	Yes	26.1	J	Yes	26.4	J	Yes	60.1	J	Yes	78.5	J	Yes	96.9	J	Yes	85.9	J	Yes	105	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	10.2	J	Yes	10.7	J	Yes	11.1	J	Yes	63.2		Yes	88.6		Yes	114		Yes	73.4	J	Yes	99.2	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	13.3	J	Yes	14.2	J	Yes	15.1	J	Yes	116	J	Yes	128	J	Yes	140	J	Yes	129	J	Yes	142	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	17.6	J	Yes	18.9	J	Yes	20.2	J	Yes	117		Yes	125		Yes	134		Yes	134	J	Yes	144	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.66	J	Yes	1.95	J	Yes	3.23	J	Yes	4.74	J	Yes	18.6	J	Yes	32.5	J	Yes	5.4	J	Yes	20.6	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	2.51	J	Yes	3.2	J	Yes	3.89	J	Yes	26.8	J	Yes	74.9	J	Yes	123	J	Yes	29.3	J	Yes	78.1	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	1.51	J	Yes	3.25	J	Yes	4.99	J	Yes	25.2	J	Yes	45.2	J	Yes	65.3	J	Yes	26.7	J	Yes	48.5	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	6.52	J	Yes	7.32	J	Yes	8.06	J	Yes	40.6	J	Yes	61.6	J	Yes	82.5	J	Yes	47.2	J	Yes	68.9	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	8.87	J	Yes	9.68	J	Yes	10.5	J	Yes	79.3	J	Yes	106	J	Yes	130	J	Yes	88	J	Yes	116	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	10.8	J	Yes	12.3	J	Yes	13.8	J	Yes	78.3	J	Yes	91.3	J	Yes	105	J	Yes	88.7	J	Yes	104	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	347	J	Yes	347	J	Yes	347	J	Yes	115	J	Yes	147	J	Yes	179	J	Yes	462	J	Yes	494	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	54.1	J	Yes	54.4	J	Yes	54.6	J	Yes	158	J	Yes	176	J	Yes	193	J	Yes	212	J	Yes	230	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	125	J	Yes	125	J	Yes	125	J	Yes	98.8	J	Yes	110	J	Yes	122	J	Yes	223	J	Yes	235	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	70.1	J	Yes	70.9	J	Yes	71.6	J	Yes	74.4	J	Yes	88.5	J	Yes	103	J	Yes	145	J	Yes	159	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	126	J	Yes	126	J	Yes	126	J	Yes	129	J	Yes	147	J	Yes	166	J	Yes	255	J	Yes	273	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	40.2	J	Yes	41.1	J	Yes	42	J	Yes	116	J	Yes	128	J	Yes	139	J	Yes	156	J	Yes	169	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	93	J	Yes	93	J	Yes	93	J	Yes	125	J	Yes	141	J	Yes	157	J	Yes	218	J	Yes	234	J
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	101	J	Yes	102	J	Yes	103	J	Yes	62.2	J	Yes	76.9	J	Yes	91.5	J	Yes	163	J	Yes	179	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	2.35	J	Yes	3.79	J	Yes	5.23	J	Yes	13.9	J	Yes	24.2	J	Yes	34.5	J	Yes	16.3	J	Yes	28	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	3.21	J	Yes	4.85	J	Yes	6.49	J	Yes	21.6	J	Yes	29.6	J	Yes	37.5	J	Yes	24.8	J	Yes	34.4	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	5.83	J	Yes	6.85	J	Yes	7.86	J	Yes	17	J	Yes	25.7	J	Yes	34.4	J	Yes	22.8	J	Yes	32.5	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	2.8	J	Yes	5.03	J	Yes	7.26	J	Yes	15.7	J	Yes	18.1	J	Yes	20.4	J	Yes	18.5	J	Yes	23.1	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	5.48	J	Yes	7.16	J	Yes	8.83	J	Yes	23	J	Yes	25.5	J	Yes	28.1	J	Yes	28.5	J	Yes	32.7	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	3.7	J	Yes	6.02	J	Yes	8.33	J	Yes	28.5	J	Yes	31.3	J	Yes	34.1	J	Yes	32.2	J	Yes	37.3	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	10.3	J	Yes	12.2	J	Yes	14.1	J	Yes	26.1	J	Yes	29.6	J	Yes	33	J	Yes	36.4	J	Yes	41.8	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	1.6	J	Yes	3.74	J	Yes	5.88	J	Yes	11.1	J	Yes	12.9	J	Yes	14.6	J	Yes	12.7	J	Yes	16.6	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	218	J	Yes	218	J	Yes	219	J	Yes	77.1	J	Yes	101	J	Yes	125	J	Yes	295	J	Yes	319	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	34.2	J	Yes	35	J	Yes	35.7	J	Yes	105	J	Yes	119	J	Yes	132	J	Yes	139	J	Yes	150	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	79	J	Yes	79.4	J	Yes	79.8	J	Yes	67.2	J	Yes	77	J	Yes	88.2	J	Yes	146	J	Yes	157	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	42.6	J	Yes	44	J	Yes	45.3	J	Yes	50.4	J	Yes	59.7	J	Yes	69.2	J	Yes	93.3	J	Yes	103	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	78.3	J	Yes	78.9	J	Yes	79.6	J	Yes	87	J	Yes	98.9	J	Yes	111	J	Yes	165	J	Yes	178	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	25.5	J	Yes	27	J	Yes	28.5	J	Yes	80.8	J	Yes	89.1	J	Yes	96.8	J	Yes	106	J	Yes	116	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	58.3	J	Yes	59.1	J	Yes	59.9	J	Yes	83.5	J	Yes	94.2	J	Yes	105	J	Yes	142	J	Yes	153	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	59.6	J	Yes	61	J	Yes	62.5	J	Yes	40.9	J	Yes	50.2	J	Yes	59.4	J	Yes	100	J	Yes	111	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	411	J	Yes	411	J	Yes	411	J	Yes	421	J	Yes	421	J	Yes	421	J	Yes	832	J	Yes	832	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	107	J	Yes	108	J	Yes	110	J	Yes	372	J	Yes	372	J	Yes	372	J	Yes	479	J	Yes	480	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	138	J	Yes	139	J	Yes	140	J	Yes	232	J	Yes	232	J	Yes	232	J	Yes	369	J	Yes	371	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	25.2	J	Yes	27.9	J	Yes	30.6	J	Yes	207	J	Yes	207	J	Yes	207	J	Yes	232	J	Yes	235	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	11.2	J	Yes	14.2	J	Yes	17.2	J	Yes	60.9	J	Yes	60.9	J	Yes	60.9	J	Yes	72.1	J	Yes	75.1	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	4.48	J	Yes	7.73	J	Yes	11	J	Yes	32	J	Yes	34.7	J	Yes	37.4	J	Yes	36.5	J	Yes	42.4	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	5.67	J	Yes	7.99	J	Yes	10.3	J	Yes	32.8	J	Yes	34.4	J	Yes	35.9	J	Yes	38.5	J	Yes	42.3	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	3.1	J	Yes	6.1	J	Yes	9.09	J	Yes	23.1	J	Yes	26.4	J	Yes	29.7	J	Yes	26.2	J	Yes	32.5	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	2.98	J	Yes	6.08	J	Yes	9.18	J	Yes	31.1	J	Yes	31.1	J	Yes	31.1	J	Yes	34.1	J	Yes	37.2	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	2.02	J	Yes	4.3	J	Yes	6.57	J	Yes	7.96	J	Yes	10	J	Yes	12.1	J	Yes	9.98	J	Yes	14.3	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	230	J	Yes	231	J	Yes	233	J	Yes	248	J	Yes	249	J	Yes	250	J	Yes	477	J	Yes	480	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	70.6	J	Yes	72.1	J	Yes	74	J	Yes	250	J	Yes	251	J	Yes	251	J	Yes	321	J	Yes	320	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	79.6	J	Yes	81.5	J	Yes	83	J	Yes	142	J	Yes	143	J	Yes	144	J	Yes	221	J	Yes	224	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	18	J	Yes	20.9	J	Yes	23.7	J	Yes	150	J	Yes	150	J	Yes	150	J	Yes	168	J	Yes	171	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	7.4	J	Yes	10.1	J	Yes	12.8	J	Yes	39	J	Yes	39.8	J	Yes	40.7	J	Yes	46.4	J	Yes	49.9	J

BERA Tissue Chemistry Data from Above Dundee Dam

					.5DL)	Total PAHs (ND=DL)		
						µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	Yes	76.1	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes	165	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes	39.5	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	Yes	71.3	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes	119	J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes	301	J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	Yes	34.3	J	Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes	177	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	Yes	128	J	Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	Yes	123	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes	125	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes	155	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes	154	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	Yes	35.7	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	Yes	127	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	Yes	70.3	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes	90.5	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes	143	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes	119	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	Yes	526	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes	248	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes	246	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	Yes	174	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	Yes	292	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes	181	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	Yes	250	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	Yes	194	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	Yes	39.7	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	Yes	44	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	Yes	42.3	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	Yes	27.7	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	Yes	36.9	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	Yes	42.4	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	Yes	47.1	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	Yes	20.5	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	Yes	344	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes	168	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes	167	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	Yes	114	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	Yes	191	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes	125	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes	160	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	Yes	122	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	Yes	832	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes	481	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes	372	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes	238	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	Yes	78.1	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	Yes	48.4	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	Yes	46.2	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	Yes	38.8	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	Yes	40.3	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	Yes	18.7	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	Yes	483	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes	325	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes	228	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes	174	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes	53.5	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					Aroclor-1016			Aroclor-1221			Aroclor-1232			Aroclor-1242			Aroclor-1248		
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	7.92	U	No	7.92	U	No	7.92	U	No	7.92	U	No	7.92	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	7.86	U	No	7.86	U	No	7.86	U	No	7.86	U	No	7.86	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	7.94	U	No	7.94	U	No	7.94	U	No	7.94	U	No	7.94	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	7.97	U	No	7.97	U	No	7.97	U	No	7.97	U	No	7.97	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	7.9	U	No	7.9	U	No	7.9	U	No	7.9	U	No	7.9	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	7.95	U	No	7.95	U	No	7.95	U	No	7.95	U	No	7.95	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	7.97	U	No	7.97	U	No	7.97	U	No	7.97	U	No	7.97	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	7.97	U	No	7.97	U	No	7.97	U	No	7.97	U	No	7.97	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	7.9	U	No	7.9	U	No	7.9	U	No	7.9	U	No	7.9	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	7.84	U	No	7.84	U	No	7.84	U	No	7.84	U	No	7.84	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	7.86	U	No	7.86	U	No	7.86	U	No	7.86	U	No	7.86	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	7.89	U	No	7.89	U	No	7.89	U	No	7.89	U	No	7.89	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	7.97	U	No	7.97	U	No	7.97	U	No	7.97	U	No	7.97	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	7.87	U	No	7.87	U	No	7.87	U	No	7.87	U	No	7.87	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	7.97	U	No	7.97	U	No	7.97	U	No	7.97	U	No	7.97	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	7.98	U	No	7.98	U	No	7.98	U	No	7.98	U	No	7.98	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	7.94	U	No	7.94	U	No	7.94	U	No	7.94	U	No	7.94	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	7.95	U	No	7.95	U	No	7.95	U	No	7.95	U	No	7.95	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	7.87	U	No	7.87	U	No	7.87	U	No	7.87	U	No	7.87	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	7.86	U	No	7.86	U	No	7.86	U	No	7.86	U	No	7.86	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	7.89	U	No	7.89	U	No	7.89	U	No	7.89	U	No	7.89	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	7.97	U	No	7.97	U	No	7.97	U	No	7.97	U	No	7.97	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	7.86	U	No	7.86	U	No	7.86	U	No	7.86	U	No	7.86	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	7.9	U	No	7.9	U	No	7.9	U	No	7.9	U	No	7.9	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	7.86	U	No	7.86	U	No	7.86	U	No	7.86	U	No	7.86	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	7.94	U	No	7.94	U	No	7.94	U	No	7.94	U	No	7.94	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	3.95	U	No	3.95	U	No	3.95	U	No	3.95	U	No	3.95	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	3.94	U	No	3.94	U	No	3.94	U	No	3.94	U	No	3.94	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	3.98	U	No	3.98	U	No	3.98	U	No	3.98	U	No	3.98	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	3.96	U	No	3.96	U	No	3.96	U	No	3.96	U	No	3.96	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	3.97	U	No	3.97	U	No	3.97	U	No	3.97	U	No	3.97	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	3.98	U	No	3.98	U	No	3.98	U	No	3.98	U	No	3.98	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	3.98	U	No	3.98	U	No	3.98	U	No	3.98	U	No	3.98	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	3.98	U	No	3.98	U	No	3.98	U	No	3.98	U	No	3.98	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	3.94	U	No	3.94	U	No	3.94	U	No	3.94	U	No	3.94	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	3.92	U	No	3.92	U	No	3.92	U	No	3.92	U	No	3.92	U	No
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	7.94	U	No	7.94	U	No	7.94	UJ	No	7.94	U	No	42.5		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	7.94	U	No	7.94	U	No	7.94	U	No	7.94	U	No	145		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	7.89	U	No	7.89	U	No	7.89	U	No	7.89	U	No	46.6		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	7.95	U	No	7.95	U	No	7.95	U	No	7.95	U	No	29.3		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	7.95	U	No	7.95	U	No	7.95	U	No	7.95	U	No	92.7		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	7.9	U	No	7.9	U	No	7.9	U	No	7.9	U	No	13.6	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	8	U	No	8	U	No	8	U	No	8	U	No	24.4		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	7.94	U	No	7.94	U	No	7.94	U	No	7.94	U	No	180		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	7.89	U	No	7.89	U	No	7.89	U	No	7.89	U	No	79.5	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	7.95	U	No	7.95	U	No	7.95	U	No	7.95	U	No	404	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	7.89	U	No	7.89	U	No	7.89	U	No	7.89	U	No	114		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	7.98	U	No	7.98	U	No	7.98	U	No	7.98	U	No	122		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	7.98	U	No	7.98	U	No	7.98	U	No	7.98	U	No	78.8		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	7.98	U	No	7.98	UJ	No	7.98	U	No	7.98	U	No	1080		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	7.95	U	No	7.95	UJ	No	7.95	U	No	7.95	U	No	418		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	7.97	U	No	7.97	UJ	No	7.97	U	No	7.97	U	No	519		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	7.89	U	No	7.89	UJ	No	7.89	U	No	7.89	U	No	453		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	7.95	U	No	7.95	UJ	No	7.95	U	No	7.95	U	No	486		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	7.86	U	No	7.86	UJ	No	7.86	U	No	7.86	U	No	244		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	7.87	U	No	7.87	UJ	No	7.87	U	No	7.87	U	No	444		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	7.95	U	No	7.95	UJ	No	7.95	U	No	7.95	U	No	640		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	7.9	U	No	7.9	UJ	No	7.9	U	No	7.9	U	No	199		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	8	U	No	8	UJ	No	8	U	No	8	U	No	150		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	7.97	U	No	7.97	U	No	7.97	U	No	7.97	U	No	124		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	7.95	U	No	7.95	UJ	No	7.95	U	No	7.95	U	No	292		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	7.86	U	No	7.86	UJ	No	7.86	U	No	7.86	U	No	193		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	7.94	U	No	7.94	UJ	No	7.94	U	No	7.94	U	No	280		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	7.89	U	No	7.89	UJ	No	7.89	U	No	7.89	U	No	423		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	7.89	U	No	7.89	UJ	No	7.89	U	No	7.89	U	No	740		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	7.89	U	No	7.89	UJ	No	7.89	U	No	7.89	U	No	506		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	7.98	U	No	7.98	UJ	No	7.98	U	No	7.98	U	No	740		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	7.89	U	No	7.89	UJ	No	7.89	U	No	7.89	U	No	468		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	7.86	U	No	7.86	UJ	No	7.86	U	No	7.86	U	No	705		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	3.97	U	No	3.97	UJ	No	3.97	U	No	3.97	U	No	857		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	3.97	U	No	3.97	UJ	No	3.97	U	No	3.97	U	No	350		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	3.98	U	No	3.98	UJ	No	3.98	U	No	3.98	U	No	448		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	3.94	U	No	3.94	UJ	No	3.94	U	No	3.94	U	No	372		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	3.97	U	No	3.97	UJ	No	3.97	U	No	3.97	U	No	419		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	7.97	U	No	7.97	U	No	7.97	U	No	7.97	U	No	396	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	7.94	U	No	7.94	U	No	7.94	U	No	7.94	U	No	369	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	7.98	U	No	7.98	U	No	7.98	U	No	7.98	U	No	368		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	7.9	U	No	7.9	U	No	7.9	U	No	7.9	U	No	350		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	7.98	U	No	7.98	U	No	7.98	U	No	7.98	U	No	86.6		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	7.94	U	No	7.94	U	No	7.94	U	No	7.94	U	No	107		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	7.92	U	No	7.92	U	No	7.92	U	No	7.92	U	No	129		Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					Aroclor-1254			Aroclor-1260			Aroclor-1262			Aroclor-1268			Total PCB Aroclors			Total PCB Aroclors (ND=0.5DL)			Total PCB Aroclors (ND=DL)		
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	583		Yes	349		Yes	7.92	U	No	7.92	U	No	932		Yes	960		Yes	987		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	600		Yes	376		Yes	7.86	U	No	7.86	U	No	976		Yes	1000		Yes	1030		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	721		Yes	465		Yes	7.94	U	No	7.94	U	No	1190		Yes	1210		Yes	1240		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	648		Yes	779		Yes	7.97	U	No	7.97	U	No	1430		Yes	1450		Yes	1480		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	789		Yes	513		Yes	7.9	U	No	7.9	U	No	1300		Yes	1330		Yes	1360		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	487		Yes	286		Yes	7.95	U	No	7.95	U	No	773		Yes	801		Yes	829		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	874		Yes	338		Yes	7.97	U	No	7.97	U	No	1210		Yes	1240		Yes	1270		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	836		Yes	491		Yes	7.97	U	No	7.97	U	No	1330		Yes	1350		Yes	1380		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	926		Yes	603		Yes	7.9	U	No	7.9	U	No	1530		Yes	1560		Yes	1580		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	301		Yes	125		Yes	7.84	U	No	7.84	U	No	426		Yes	453		Yes	481		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	759		Yes	490		Yes	7.86	U	No	7.86	U	No	1250		Yes	1280		Yes	1300		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	732		Yes	411		Yes	7.89	U	No	7.89	U	No	1140		Yes	1170		Yes	1200		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	913		Yes	511		Yes	7.97	U	No	7.97	U	No	1420		Yes	1450		Yes	1480		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	980		Yes	1230		Yes	7.87	U	No	7.87	U	No	2210		Yes	2240		Yes	2270		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	908		Yes	592	J	Yes	7.97	U	No	7.97	U	No	1500	J	Yes	1530	J	Yes	1560	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	573		Yes	339		Yes	7.98	U	No	7.98	U	No	912		Yes	940		Yes	968		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	858		Yes	544		Yes	7.94	U	No	7.94	U	No	1400		Yes	1430		Yes	1460		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	804		Yes	568		Yes	7.95	U	No	7.95	U	No	1370		Yes	1400		Yes	1430		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	580		Yes	357		Yes	7.87	U	No	7.87	U	No	937		Yes	965		Yes	992		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	416		Yes	177		Yes	7.86	U	No	7.86	U	No	593		Yes	621		Yes	648		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	388		Yes	210		Yes	7.89	U	No	7.89	U	No	598		Yes	626		Yes	653		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	984		Yes	305		Yes	7.97	U	No	7.97	U	No	1290		Yes	1320		Yes	1340		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	201		Yes	193		Yes	7.86	U	No	7.86	U	No	394		Yes	422		Yes	449		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	96.8		Yes	110	J	Yes	7.9	U	No	7.9	U	No	207	J	Yes	234	J	Yes	262	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	350		Yes	188	J	Yes	7.86	U	No	7.86	U	No	538	J	Yes	566	J	Yes	593	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	700		Yes	443		Yes	7.94	U	No	7.94	U	No	1140		Yes	1170		Yes	1200		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	663		Yes	413		Yes	3.95	U	No	3.95	U	No	1080		Yes	1110		Yes	1130		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	663		Yes	393		Yes	3.94	U	No	3.94	U	No	1050		Yes	1080		Yes	1110		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	812		Yes	487		Yes	3.98	U	No	3.98	U	No	1300		Yes	1320		Yes	1350		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	797		Yes	981		Yes	3.96	U	No	3.96	U	No	1780		Yes	1800		Yes	1830		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	849		Yes	553	J	Yes	3.97	U	No	3.97	U	No	1400	J	Yes	1430	J	Yes	1460	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	521		Yes	307		Yes	3.98	U	No	3.98	U	No	829		Yes	857		Yes	885		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	867		Yes	431		Yes	3.98	U	No	3.98	U	No	1300		Yes	1330		Yes	1360		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	821		Yes	526		Yes	3.98	U	No	3.98	U	No	1350		Yes	1370		Yes	1400		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	783		Yes	501		Yes	3.94	U	No	3.94	U	No	1290		Yes	1310		Yes	1340		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	357		Yes	150		Yes	3.92	U	No	3.92	U	No	507		Yes	535		Yes	562		Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	127		Yes	42.5	J	Yes	7.94	U	No	7.94	U	No	212	J	Yes	236	J	Yes	260	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	108		Yes	46.2		Yes	7.94	U	No	7.94	U	No	299		Yes	323		Yes	347		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	67.8		Yes	48.1	J	Yes	7.89	U	No	7.89	U	No	163	J	Yes	186	J	Yes	210	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	59.7		Yes	51		Yes	7.95	U	No	7.95	U	No	140		Yes	164		Yes	188		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	73.4		Yes	45		Yes	7.95	U	No	7.95	U	No	211		Yes	235		Yes	259		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	47.6		Yes	62		Yes	7.9	U	No	7.9	U	No	123	J	Yes	147	J	Yes	171	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	44.8		Yes	26.6		Yes	8	U	No	8	U	No	95.8		Yes	120		Yes	144		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	379		Yes	248		Yes	7.94	U	No	7.94	U	No	807		Yes	831		Yes	855		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	126		Yes	98.5		Yes	7.89	U	No	7.89	U	No	304	J	Yes	328	J	Yes	351	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	384		Yes	181		Yes	7.95	U	No	7.95	U	No	969	J	Yes	993	J	Yes	1020	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	273	J	Yes	103		Yes	7.89	U	No	7.89	U	No	490	J	Yes	514	J	Yes	537	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	396		Yes	227		Yes	7.98	U	No	7.98	U	No	745		Yes	769		Yes	793		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	200	J	Yes	99.8		Yes	7.98	U	No	7.98	U	No	379	J	Yes	403	J	Yes	426	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	1360	J	Yes	726		Yes	7.98	UJ	No	7.98	U	No	3170	J	Yes	3190	J	Yes	3210	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	541	J	Yes	278		Yes	7.95	UJ	No	7.95	U	No	1240	J	Yes	1260	J	Yes	1280	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	884		Yes	618		Yes	7.97	UJ	No	7.97	U	No	2020	J	Yes	2040	J	Yes	2070	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	1100		Yes	915		Yes	7.89	UJ	No	7.89	U	No	2470	J	Yes	2490	J	Yes	2520	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	1190		Yes	829		Yes	7.95	UJ	No	7.95	U	No	2510	J	Yes	2530	J	Yes	2550	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	339	J	Yes	218		Yes	7.86	UJ	No	7.86	U	No	801	J	Yes	825	J	Yes	848	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	575		Yes	268		Yes	7.87	UJ	No	7.87	U	No	1290	J	Yes	1310	J	Yes	1330	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	914		Yes	573		Yes	7.95	UJ	No	7.95	U	No	2130	J	Yes	2150	J	Yes	2170	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	263	J	Yes	124		Yes	7.9	UJ	No	7.9	U	No	586	J	Yes	610	J	Yes	633	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	222	J	Yes	164		Yes	8	UJ	No	8	U	No	536	J	Yes	560	J	Yes	584	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	250		Yes	217		Yes	7.97	U	No	7.97	U	No	591		Yes	615		Yes	639		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	548		Yes	360		Yes	7.95	UJ	No	7.95	U	No	1200	J	Yes	1220	J	Yes	1250	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	459		Yes	369		Yes	7.86	UJ	No	7.86	U	No	1020	J	Yes	1040	J	Yes	1070	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	575		Yes	369		Yes	7.94	UJ	No	7.94	U	No	1220	J	Yes	1250	J	Yes	1270	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	955		Yes	505	J	Yes	7.89	UJ	No	7.89	U	No	1880	J	Yes	1910	J	Yes	1930	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	1160		Yes	804		Yes	7.89	UJ	No	7.89	U	No	2700	J	Yes	2730	J	Yes	2750	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	415		Yes	220		Yes	7.89	UJ	No	7.89	U	No	1140	J	Yes	1160	J	Yes	1190	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	1130		Yes	846		Yes	7.98	UJ	No	7.98	U	No	2720	J	Yes	2740	J	Yes	2760	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	471	J	Yes	190		Yes	7.89	UJ	No	7.89	U	No	1130	J	Yes	1150	J	Yes	1180	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	1160		Yes	901		Yes	7.86	UJ	No	7.86	U	No	2770	J	Yes	2790	J	Yes	2810	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	1090	J	Yes	566		Yes	3.97	UJ	No	3.97	U	No	2510	J	Yes	2530	J	Yes	2550	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	455	J	Yes	230		Yes	3.97	UJ	No	3.97	U	No	1040	J	Yes	1060	J	Yes	1080	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	778		Yes	537		Yes	3.98	UJ	No	3.98	U	No	1760	J	Yes	1780	J	Yes	1810	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	901		Yes	746		Yes	3.94	UJ	No	3.94	U	No	2020	J	Yes	2040	J	Yes	2070	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	990		Yes	680		Yes	3.97	UJ	No	3.97	U	No	2090	J	Yes	2110	J	Yes	2130	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	1210		Yes	676		Yes	7.97	U	No	7.97	U	No	2280	J	Yes	2310	J	Yes	2330	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	1670		Yes	1780		Yes	7.94	U	No	7.94	U	No	3820	J	Yes	3840	J	Yes	3870	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	2130		Yes	1690		Yes	7.98	U	No	7.98	U	No	4190		Yes	4210		Yes	4240		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	1270	J	Yes	627		Yes	7.9	U	No	7.9	U	No	2250	J	Yes	2270	J	Yes	2290	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	186	J	Yes	113		Yes	7.98	U	No	7.98	U	No	386	J	Yes	410	J	Yes	433	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	820		Yes	856		Yes	7.94	U	No	7.94	U	No	1780		Yes	1810		Yes	1830		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	639		Yes	488		Yes	7.92	U	No	7.92	U	No	1260		Yes	1280		Yes	1300		Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	Aroclor-1016 µg/kg			Aroclor-1221 µg/kg			Aroclor-1232 µg/kg			Aroclor-1242 µg/kg			Aroclor-1248 µg/kg		
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	7.89	U	No	7.89	U	No	7.89	U	No	7.89	U	No	318	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	3.99	U	No	3.99	U	No	3.99	U	No	3.99	U	No	329	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	3.97	U	No	3.97	U	No	3.97	U	No	3.97	U	No	291	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	3.98	U	No	3.98	U	No	3.98	U	No	3.98	U	No	301		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	3.95	U	No	3.95	U	No	3.95	U	No	3.95	U	No	341	J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	7.95	U	No	7.95	U	No	7.95	UJ	No	7.95	U	No	874		Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	7.97	U	No	7.97	U	No	7.97	UJ	No	7.97	U	No	73.9		Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	3.98	U	No	3.98	U	No	3.98	UJ	No	3.98	U	No	501		Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	7.9	U	No	7.9	U	No	7.9	UJ	No	7.9	U	No	39.4		Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	7.92	U	No	7.92	U	No	7.92	UJ	No	7.92	U	No	270		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	7.92	U	No	7.92	U	No	7.92	U	No	7.92	U	No	540	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	7.89	U	No	7.89	U	No	7.89	U	No	7.89	U	No	753	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	7.9	U	No	7.9	U	No	7.9	U	No	7.9	U	No	528	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	7.86	U	No	7.86	U	No	7.86	U	No	7.86	U	No	67.2	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	8	U	No	8	U	No	8	U	No	8	U	No	78.5	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	7.95	U	No	7.95	U	No	7.95	U	No	7.95	U	No	51.9	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	3.95	U	No	3.95	U	No	3.95	U	No	3.95	U	No	357	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	3.97	U	No	3.97	U	No	3.97	U	No	3.97	U	No	476	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	3.96	U	No	3.96	U	No	3.96	U	No	3.96	U	No	327	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	7.94	U	No	7.94	U	No	7.94	UJ	No	7.94	U	No	248		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	7.9	U	No	7.9	U	No	7.9	UJ	No	7.9	U	No	365		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	7.98	U	No	7.98	U	No	7.98	UJ	No	7.98	U	No	296		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	7.87	U	No	7.87	U	No	7.87	UJ	No	7.87	U	No	226		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	7.94	U	No	7.94	U	No	7.94	UJ	No	7.94	U	No	335		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	8	U	No	8	U	No	8	UJ	No	8	U	No	379		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	7.94	U	No	7.94	U	No	7.94	UJ	No	7.94	U	No	1200		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	7.84	U	No	7.84	U	No	7.84	UJ	No	7.84	U	No	313	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	7.97	U	No	7.97	U	No	7.97	UJ	No	7.97	U	No	24.2		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	7.98	U	No	7.98	U	No	7.98	UJ	No	7.98	U	No	36.6		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	7.97	U	No	7.97	U	No	7.97	UJ	No	7.97	U	No	32.2		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	7.86	U	No	7.86	U	No	7.86	UJ	No	7.86	U	No	27.2		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	7.97	U	No	7.97	U	No	7.97	UJ	No	7.97	U	No	43.3		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	7.86	U	No	7.86	U	No	7.86	UJ	No	7.86	U	No	45.2		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	7.97	U	No	7.97	U	No	7.97	UJ	No	7.97	U	No	98.7		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	7.98	U	No	7.98	U	No	7.98	UJ	No	7.98	U	No	29.6		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	3.98	U	No	3.98	U	No	3.98	UJ	No	3.98	U	No	164		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	3.97	U	No	3.97	U	No	3.97	UJ	No	3.97	U	No	236		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	3.99	U	No	3.99	U	No	3.99	UJ	No	3.99	U	No	194		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	3.93	U	No	3.93	U	No	3.93	UJ	No	3.93	U	No	145		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	3.98	U	No	3.98	U	No	3.98	UJ	No	3.98	U	No	219		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	3.97	U	No	3.97	U	No	3.97	UJ	No	3.97	U	No	245		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	3.98	U	No	3.98	U	No	3.98	UJ	No	3.98	U	No	737		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	3.95	U	No	3.95	U	No	3.95	UJ	No	3.95	U	No	195	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	7.86	U	No	7.86	U	No	7.86	UJ	No	7.86	U	No	697		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	7.98	U	No	7.98	U	No	7.98	UJ	No	7.98	U	No	350		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	7.98	U	No	7.98	U	No	7.98	UJ	No	7.98	U	No	227		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	7.97	U	No	7.97	U	No	7.97	UJ	No	7.97	U	No	419		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	7.92	U	No	7.92	U	No	7.92	UJ	No	7.92	U	No	213		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	7.98	U	No	7.98	U	No	7.98	UJ	No	7.98	U	No	109		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	8	U	No	8	U	No	8	UJ	No	8	U	No	132		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	7.9	U	No	7.9	U	No	7.9	UJ	No	7.9	U	No	45.8		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	7.89	U	No	7.89	U	No	7.89	UJ	No	7.89	U	No	78.7		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	7.89	U	No	7.89	U	No	7.89	UJ	No	7.89	U	No	34.6		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	3.96	U	No	3.96	U	No	3.96	UJ	No	3.96	U	No	435		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	3.99	U	No	3.99	U	No	3.99	UJ	No	3.99	U	No	272		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	3.97	U	No	3.97	U	No	3.97	UJ	No	3.97	U	No	149		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	3.97	U	No	3.97	U	No	3.97	UJ	No	3.97	U	No	309		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	3.95	U	No	3.95	U	No	3.95	UJ	No	3.95	U	No	139		Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	Aroclor-1254 µg/kg			Aroclor-1260 µg/kg			Aroclor-1262 µg/kg			Aroclor-1268 µg/kg			Total PCB Aroclors µg/kg			Total PCB Aroclors (ND=0.5DL) µg/kg			Total PCB Aroclors (ND=DL) µg/kg		
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	691	J	Yes	304		Yes	7.89	U	No	7.89	U	No	1310	J	Yes	1340	J	Yes	1360	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	987	J	Yes	553		Yes	3.99	U	No	3.99	U	No	1870	J	Yes	1900	J	Yes	1920	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	1420		Yes	1500		Yes	3.97	U	No	3.97	U	No	3210	J	Yes	3240	J	Yes	3260	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	1710		Yes	1350		Yes	3.98	U	No	3.98	U	No	3360		Yes	3380		Yes	3410		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	1110	J	Yes	537		Yes	3.95	U	No	3.95	U	No	1990	J	Yes	2010	J	Yes	2030	J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	1900		Yes	1130	J	Yes	7.95	U	No	7.95	U	No	3900	J	Yes	3930	J	Yes	3950	J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	163		Yes	94.3	J	Yes	7.97	U	No	7.97	U	No	331	J	Yes	355	J	Yes	379	J	Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	1090		Yes	647	J	Yes	3.98	U	No	3.98	U	No	2240	J	Yes	2260	J	Yes	2290	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	102		Yes	48.4	J	Yes	7.9	U	No	7.9	U	No	190	J	Yes	214	J	Yes	237	J	Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	340		Yes	125	J	Yes	7.92	U	No	7.92	U	No	735	J	Yes	759	J	Yes	783	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	962		Yes	429		Yes	7.92	U	No	7.92	U	No	1930	J	Yes	1950	J	Yes	1980	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	1050		Yes	561		Yes	7.89	U	No	7.89	U	No	2360	J	Yes	2390	J	Yes	2410	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	1090		Yes	476		Yes	7.9	U	No	7.9	U	No	2090	J	Yes	2120	J	Yes	2140	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	86.9		Yes	44.8		Yes	7.86	U	No	7.86	U	No	199	J	Yes	222	J	Yes	246	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	99		Yes	56.2		Yes	8	U	No	8	U	No	234	J	Yes	258	J	Yes	282	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	60.2		Yes	33.2		Yes	7.95	U	No	7.95	U	No	145	J	Yes	169	J	Yes	193	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	624		Yes	281		Yes	3.95	U	No	3.95	U	No	1260	J	Yes	1280	J	Yes	1310	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	659		Yes	354		Yes	3.97	U	No	3.97	U	No	1490	J	Yes	1510	J	Yes	1540	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	655		Yes	289		Yes	3.96	U	No	3.96	U	No	1270	J	Yes	1300	J	Yes	1320	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	563		Yes	251	J	Yes	7.94	U	No	7.94	U	No	1060	J	Yes	1090	J	Yes	1110	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	838		Yes	380	J	Yes	7.9	U	No	7.9	U	No	1580	J	Yes	1610	J	Yes	1630	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	886		Yes	579	J	Yes	7.98	U	No	7.98	U	No	1760	J	Yes	1780	J	Yes	1810	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	545		Yes	220	J	Yes	7.87	U	No	7.87	U	No	991	J	Yes	1010	J	Yes	1040	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	806		Yes	405	J	Yes	7.94	U	No	7.94	U	No	1550	J	Yes	1570	J	Yes	1590	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	857		Yes	372	J	Yes	8	U	No	8	U	No	1610	J	Yes	1630	J	Yes	1660	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	713		Yes	314	J	Yes	7.94	U	No	7.94	U	No	2230	J	Yes	2250	J	Yes	2270	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	472		Yes	233	J	Yes	7.84	U	No	7.84	U	No	1020	J	Yes	1040	J	Yes	1070	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	38.3		Yes	20.4	J	Yes	7.97	U	No	7.97	U	No	82.9	J	Yes	107	J	Yes	131	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	53.5		Yes	24.4	J	Yes	7.98	U	No	7.98	U	No	115	J	Yes	138	J	Yes	162	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	62.6		Yes	40.1	J	Yes	7.97	U	No	7.97	U	No	135	J	Yes	159	J	Yes	183	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	42		Yes	19.8	J	Yes	7.86	U	No	7.86	U	No	89	J	Yes	113	J	Yes	136	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	68.4		Yes	30.7	J	Yes	7.97	U	No	7.97	U	No	142	J	Yes	166	J	Yes	190	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	71.1		Yes	41.8	J	Yes	7.86	U	No	7.86	U	No	158	J	Yes	182	J	Yes	205	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	51.3		Yes	21.2	J	Yes	7.97	U	No	7.97	U	No	171	J	Yes	195	J	Yes	219	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	48.2		Yes	23	J	Yes	7.98	U	No	7.98	U	No	101	J	Yes	125	J	Yes	149	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	366		Yes	165	J	Yes	3.98	U	No	3.98	U	No	694	J	Yes	721	J	Yes	743	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	530		Yes	241	J	Yes	3.97	U	No	3.97	U	No	1010	J	Yes	1030	J	Yes	1050	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	568		Yes	371	J	Yes	3.99	U	No	3.99	U	No	1130	J	Yes	1150	J	Yes	1180	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	339		Yes	138	J	Yes	3.93	U	No	3.93	U	No	622	J	Yes	643	J	Yes	670	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	514		Yes	257	J	Yes	3.98	U	No	3.98	U	No	992	J	Yes	1010	J	Yes	1040	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	541		Yes	239	J	Yes	3.97	U	No	3.97	U	No	1030	J	Yes	1050	J	Yes	1080	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	435		Yes	191	J	Yes	3.98	U	No	3.98	U	No	1370	J	Yes	1390	J	Yes	1410	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	295		Yes	145	J	Yes	3.95	U	No	3.95	U	No	637	J	Yes	658	J	Yes	686	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	584		Yes	180	J	Yes	7.86	U	No	7.86	U	No	1460	J	Yes	1480	J	Yes	1510	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	549		Yes	232	J	Yes	7.98	U	No	7.98	U	No	1130	J	Yes	1150	J	Yes	1180	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	286		Yes	117	J	Yes	7.98	U	No	7.98	U	No	630	J	Yes	654	J	Yes	678	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	899	J	Yes	394	J	Yes	7.97	U	No	7.97	U	No	1710	J	Yes	1740	J	Yes	1760	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	467		Yes	150	J	Yes	7.92	U	No	7.92	U	No	830	J	Yes	854	J	Yes	878	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	93.5		Yes	35.3	J	Yes	7.98	U	No	7.98	U	No	238	J	Yes	262	J	Yes	286	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	214		Yes	91	J	Yes	8	U	No	8	U	No	437	J	Yes	461	J	Yes	485	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	62.6		Yes	27.3	J	Yes	7.9	U	No	7.9	U	No	136	J	Yes	159	J	Yes	183	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	175		Yes	64.8	J	Yes	7.89	U	No	7.89	U	No	319	J	Yes	342	J	Yes	366	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	72.8		Yes	25.3	J	Yes	7.89	U	No	7.89	U	No	133	J	Yes	156	J	Yes	180	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	365		Yes	115	J	Yes	3.96	U	No	3.96	U	No	915	J	Yes	937	J	Yes	964	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	429		Yes	181	J	Yes	3.99	U	No	3.99	U	No	881	J	Yes	903	J	Yes	930	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	189		Yes	78.2	J	Yes	3.97	U	No	3.97	U	No	416	J	Yes	440	J	Yes	464	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	665	J	Yes	288	J	Yes	3.97	U	No	3.97	U	No	1260	J	Yes	1290	J	Yes	1310	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	304		Yes	98.4	J	Yes	3.95	U	No	3.95	U	No	541	J	Yes	565	J	Yes	589	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-1			PCB-2			PCB-3			PCB-4			PCB-5		
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.00248		Yes	0.00129		Yes	0.00166		Yes	0.0455		Yes	0.000985	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.0031		Yes	0.00105	EMPC-J	Yes	0.00191		Yes	0.102		Yes	0.00105	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	0.0039		Yes	0.00146		Yes	0.00211	EMPC-J	Yes	0.0625		Yes	0.0013	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	0.00307		Yes	0.00125		Yes	0.00201	EMPC-J	Yes	0.0643		Yes	0.000878	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	0.00512		Yes	0.00209	EMPC-J	Yes	0.00194	EMPC-J	Yes	0.105		Yes	0.00077	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	0.00327		Yes	0.000784	EMPC-J	Yes	0.00194		Yes	0.0588		Yes	0.00076	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.00445		Yes	0.000373	U	No	0.00165		Yes	0.0971		Yes	0.000578	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.00268		Yes	0.000789	EMPC-J	Yes	0.00102	U	No	0.0542		Yes	0.000719	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.00368		Yes	0.000963		Yes	0.00171	EMPC-J	Yes	0.0872		Yes	0.0007	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	0.00432		Yes	0.000388	U	No	0.00168	EMPC-J	Yes	0.116		Yes	0.000538	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.00205		Yes	0.000613	U	No	0.00133	EMPC-J	Yes	0.0335		Yes	0.00313	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.00267		Yes	0.00137	EMPC-J	Yes	0.000757	U	No	0.0898		Yes	0.00769	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	0.00372	EMPC-J	Yes	0.00136	U	No	0.00135	U	No	0.0771		Yes	0.00402	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	0.00222	EMPC-J	Yes	0.00112	U	No	0.00111	U	No	0.0723		Yes	0.00445	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.00474		Yes	0.00135	U	No	0.00259		Yes	0.0989		Yes	0.00328	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.00363	EMPC-J	Yes	0.00133	U	No	0.00132	U	No	0.0791		Yes	0.00177	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	0.00585	EMPC-J	Yes	0.00126	U	No	0.00237	EMPC-J	Yes	0.136		Yes	0.00237	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.0024	EMPC-J	Yes	0.000934	U	No	0.000926	U	No	0.0537		Yes	0.0028	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.0042		Yes	0.00128	U	No	0.00131	U	No	0.11		Yes	0.00409	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	0.00478	EMPC-J	Yes	0.00123	U	No	0.00126	U	No	0.141		Yes	0.00163	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.00334		Yes	0.000571	U	No	0.0018		Yes	0.0812		Yes	0.00107	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	0.00511		Yes	0.00147	EMPC-J	Yes	0.00206		Yes	0.0848		Yes	0.00184	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.00459	U	No	0.00529	U	No	0.00515	U	No	0.0207	J	Yes	0.0128	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.000587	U	No	0.000409	U	No	0.0011	U	No	0.00899		Yes	0.000676	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.00196	EMPC-J	Yes	0.000617	U	No	0.000627	U	No	0.0307		Yes	0.000681	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	0.00291		Yes	0.000611	U	No	0.00172		Yes	0.0529		Yes	0.00111	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.00228		Yes	0.000842		Yes	0.00151	EMPC-J	Yes	0.04		Yes	0.000982	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.00289		Yes	0.0012	EMPC-J	Yes	0.00117		Yes	0.0961		Yes	0.00212	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	0.00381	EMPC-J	Yes	0.00109		Yes	0.00143	EMPC-J	Yes	0.0694		Yes	0.00129	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	0.00269	EMPC-J	Yes	0.000941		Yes	0.00136	EMPC-J	Yes	0.0679		Yes	0.00124	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	0.00493		Yes	0.00138	EMPC-J	Yes	0.00227	EMPC-J	Yes	0.102		Yes	0.00101	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	0.00341	EMPC-J	Yes	0.000736	EMPC-J	Yes	0.00143		Yes	0.0669		Yes	0.000583	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.00508	EMPC-J	Yes	0.000386	U	No	0.00197	EMPC-J	Yes	0.115		Yes	0.000692	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.00255	EMPC-J	Yes	0.000641	EMPC-J	Yes	0.000488	U	No	0.054		Yes	0.000837	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.00389		Yes	0.00083		Yes	0.00127	EMPC-J	Yes	0.0966		Yes	0.00105	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.00454	EMPC-J	Yes	0.000399	U	No	0.00117	EMPC-J	Yes	0.128		Yes	0.000535	U	No
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	0.016		Yes	0.000707	U	No	0.00164	U	No	0.484	J	Yes	0.00334	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.019		Yes	0.00208		Yes	0.00391		Yes	0.726	J	Yes	0.0116		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.00186		Yes	0.000764	U	No	0.00135	U	No	0.0371	J	Yes	0.00113	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.00258		Yes	0.000692	U	No	0.00104	U	No	0.0601	J	Yes	0.0011	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.00858		Yes	0.00362		Yes	0.00291		Yes	0.355	J	Yes	0.00795		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.00128	U	No	0.00041	U	No	0.00064	U	No	0.0231	J	Yes	0.000263	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.00258		Yes	0.000599	U	No	0.00107	U	No	0.0387	J	Yes	0.000632	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	0.00283		Yes	0.000983	U	No	0.00255	U	No	0.0896		Yes	0.00218	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	0.00796		Yes	0.00176	U	No	0.00443	U	No	0.149		Yes	0.00326	EMPC-J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	0.0175		Yes	0.00433		Yes	0.00504	U	No	0.643		Yes	0.0186	EMPC-J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	0.0348		Yes	0.00409	U	No	0.00742		Yes	0.903		Yes	0.0111		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.0043		Yes	0.00203	U	No	0.00368	U	No	0.117		Yes	0.00312	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	0.0106		Yes	0.00166	U	No	0.00399	U	No	0.203		Yes	0.00158	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	0.133		Yes	0.03		Yes	0.0146		Yes	3.32		Yes	0.0934		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	0.0146		Yes	0.00421	U	No	0.00418	U	No	0.558		Yes	0.0203	EMPC-J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	0.028		Yes	0.00722	EMPC-J	Yes	0.0116		Yes	0.689		Yes	0.0263	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	0.045		Yes	0.00747		Yes	0.0099		Yes	1.33		Yes	0.0314		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	0.04		Yes	0.0071		Yes	0.00498	U	No	1.21		Yes	0.0299	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	0.0168		Yes	0.00431		Yes	0.00367		Yes	0.657	J	Yes	0.0156		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	0.0603		Yes	0.0096		Yes	0.0062		Yes	1.57	J	Yes	0.0379		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	0.0941		Yes	0.0215		Yes	0.012		Yes	3.06	J	Yes	0.0406		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	0.00597		Yes	0.00238		Yes	0.00233	U	No	0.233	J	Yes	0.00921	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	0.0102		Yes	0.00232		Yes	0.00354		Yes	0.329	J	Yes	0.0452	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	0.00704		Yes	0.00183	U	No	0.00271		Yes	0.198	J	Yes	0.00631		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	0.0143		Yes	0.00521		Yes	0.00758		Yes	0.466	J	Yes	0.017		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	0.0151		Yes	0.0026		Yes	0.00327		Yes	0.533	J	Yes	0.0147		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	0.0144		Yes	0.00238		Yes	0.00281		Yes	0.445	J	Yes	0.00748	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	0.0518		Yes	0.00507		Yes	0.00736		Yes	1.58	J	Yes	0.0236		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	0.0494		Yes	0.0137		Yes	0.00939		Yes	1.67		Yes	0.0426		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	0.0102	J	Yes	0.00379	U	No	0.00305	U	No	0.459		Yes	0.0302	EMPC-J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	0.0366		Yes	0.00939		Yes	0.00836		Yes	1.31		Yes	0.0523	EMPC-J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	0.034		Yes	0.0113		Yes	0.00991		Yes	1.49		Yes	0.0634		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	0.066		Yes	0.0264		Yes	0.00862	EMPC-J	Yes	2.26		Yes	0.0662		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	0.108		Yes	0.0229		Yes	0.0117		Yes	2.71	J	Yes	0.074		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	0.0119		Yes	0.00219		Yes	0.0018	U	No	0.457	J	Yes	0.0169	EMPC-J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	0.0237		Yes	0.00659	EMPC-J	Yes	0.0103		Yes	0.619	J	Yes	0.0234	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	0.0357		Yes	0.00596		Yes	0.00784		Yes	1.08	J	Yes	0.0262		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	0.0317		Yes	0.00557		Yes	0.00259		Yes	0.961	J	Yes	0.0226	EMPC-J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	0.00654		Yes	0.00285	U	No	0.00531	U	No	0.428		Yes	0.00356	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	0.0523		Yes	0.00249	U	No	0.00365	U	No	1.29		Yes	0.0142	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	0.105		Yes	0.00359	U	No	0.00657		Yes	2.38		Yes	0.0421		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	0.13		Yes	0.00522		Yes	0.0101		Yes	2.36		Yes	0.0394		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.00179		Yes	0.00114	U	No	0.00232	U	No	0.0828	J	Yes	0.000969	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.0152		Yes	0.000894	U	No	0.00193	U	No	0.339	J	Yes	0.00342	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	0.0296		Yes	0.000936	U	No	0.00175	U	No	0.666	J	Yes	0.0129		Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-6			PCB-7			PCB-8			PCB-9			PCB-10			PCB-11			PCB-12			PCB-13	
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg	
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.0111		Yes	0.000937	U	No	0.034		Yes	0.00523		Yes	0.00341	EMPC-J	Yes	0.0163	U	No	0.000958	U	No	C12	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.0126		Yes	0.00197		Yes	0.0387		Yes	0.00968		Yes	0.00573		Yes	0.023	U	No	0.00475		Yes	C12	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	0.0116		Yes	0.00123	U	No	0.0352		Yes	0.00501		Yes	0.00424		Yes	0.0257	U	No	0.00489		Yes	C12	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	0.00771		Yes	0.000834	U	No	0.022		Yes	0.00414	EMPC-J	Yes	0.00464		Yes	0.0207	U	No	0.00487	EMPC-J	Yes	C12	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	0.0133		Yes	0.000711	U	No	0.0408		Yes	0.00571		Yes	0.00652		Yes	0.0335	U	No	0.00074	U	No	C12	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	0.0053	EMPC-J	Yes	0.000722	U	No	0.0181		Yes	0.00421		Yes	0.00501		Yes	0.0188	U	No	0.000738	U	No	C12	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.00633		Yes	0.000549	U	No	0.0207		Yes	0.00385		Yes	0.00629		Yes	0.0176	U	No	0.00396		Yes	C12	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.00412	EMPC-J	Yes	0.000683	U	No	0.0128		Yes	0.00317	EMPC-J	Yes	0.00461		Yes	0.0125	U	No	0.000699	U	No	C12	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.00482		Yes	0.000647	U	No	0.0177		Yes	0.00574		Yes	0.00676		Yes	0.0167	U	No	0.00382		Yes	C12	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	0.00473		Yes	0.000497	U	No	0.0169		Yes	0.00397	EMPC-J	Yes	0.00712		Yes	0.0234	U	No	0.00439		Yes	C12	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.00759	J	Yes	0.00294	U	No	0.0248		Yes	0.00578	J	Yes	0.00275		Yes	0.0139	UJ	No	0.00314	U	No	C12	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.00945	J	Yes	0.00723	U	No	0.0265		Yes	0.0129	J	Yes	0.00706		Yes	0.0252	J	Yes	0.00771	U	No	C12	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	0.0174		Yes	0.00377	U	No	0.0454		Yes	0.00645	J	Yes	0.00608		Yes	0.0334		Yes	0.00611	J	Yes	C12	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	0.00993		Yes	0.00418	U	No	0.0273		Yes	0.00737	J	Yes	0.00639		Yes	0.0261		Yes	0.00446	U	No	C12	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.0168		Yes	0.00307	U	No	0.0453		Yes	0.00648	EMPC-J	Yes	0.00554	EMPC-J	Yes	0.0347		Yes	0.00337	U	No	C12	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.00718		Yes	0.00167	U	No	0.0255		Yes	0.00617		Yes	0.0068		Yes	0.0236		Yes	0.00425	J	Yes	C12	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	0.01		Yes	0.00223	U	No	0.0316		Yes	0.00592	EMPC-J	Yes	0.00962		Yes	0.0295		Yes	0.00833		Yes	C12	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.00469	J	Yes	0.00263	U	No	0.0127		Yes	0.00706	J	Yes	0.00577		Yes	0.0137	U	No	0.0028	U	No	C12	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.00488	EMPC-J	Yes	0.00382	U	No	0.0186		Yes	0.00655	EMPC-J	Yes	0.00855		Yes	0.0178	U	No	0.0042	U	No	C12	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	0.00676		Yes	0.00152	U	No	0.0229		Yes	0.00607	EMPC-J	Yes	0.00941		Yes	0.0325		Yes	0.00561		Yes	C12	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.0238		Yes	0.000989	U	No	0.0982		Yes	0.00886		Yes	0.00619		Yes	0.0161	U	No	0.00484		Yes	C12	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	0.00185	U	No	0.0017	U	No	0.0257		Yes	0.00191	U	No	0.00649	EMPC-J	Yes	0.0283	U	No	0.00177	U	No	C12	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.0127	U	No	0.0118	U	No	0.0126	J	Yes	0.0137	U	No	0.0102	U	No	0.0129	U	No	0.0128	U	No	C12	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.00068	U	No	0.000625	U	No	0.00268		Yes	0.000703	U	No	0.000341	U	No	0.00629	U	No	0.00065	U	No	C12	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.000685	U	No	0.000629	U	No	0.00917		Yes	0.000708	U	No	0.00251		Yes	0.00966	U	No	0.000654	U	No	C12	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	0.00612		Yes	0.00102	U	No	0.0229		Yes	0.00489	EMPC-J	Yes	0.00462		Yes	0.0153	U	No	0.00106	U	No	C12	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.0095	J	Yes	0.000925	U	No	0.0298		Yes	0.00548	J	Yes	0.00311	EMPC-J	Yes	0.0076	UJ	No	0.000976	U	No	C12	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.0111	J	Yes	0.00276		Yes	0.0328		Yes	0.0112	J	Yes	0.00637		Yes	0.0181	J	Yes	0.00432		Yes	C12	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	0.0143		Yes	0.00122	U	No	0.04		Yes	0.00569	J	Yes	0.00511		Yes	0.0226		Yes	0.00547	J	Yes	C12	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	0.0087		Yes	0.00117	U	No	0.0244		Yes	0.00559	EMPC-J	Yes	0.00542		Yes	0.0174		Yes	0.00369	EMPC-J	Yes	C12	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	0.0151		Yes	0.000946	U	No	0.0431		Yes	0.0061	EMPC-J	Yes	0.00603	EMPC-J	Yes	0.0257		Yes	0.00103	U	No	C12	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	0.00605	EMPC-J	Yes	0.000551	U	No	0.0211		Yes	0.005		Yes	0.00573		Yes	0.0151		Yes	0.00193	J	Yes	C12	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.00798		Yes	0.000653	U	No	0.0256		Yes	0.00478	EMPC-J	Yes	0.00779		Yes	0.0181		Yes	0.00593		Yes	C12	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.00438	EMPC-J	Yes	0.000788	U	No	0.0128		Yes	0.00496	EMPC-J	Yes	0.00514		Yes	0.00653	U	No	0.000832	U	No	C12	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.00484	EMPC-J	Yes	0.000979	U	No	0.0181		Yes	0.00607	EMPC-J	Yes	0.0075		Yes	0.00858	U	No	0.00311		Yes	C12	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.00572		Yes	0.000498	U	No	0.0198		Yes	0.00499	EMPC-J	Yes	0.00824		Yes	0.0219		Yes	0.00499		Yes	C12	
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	0.0717		Yes	0.0102	EMPC-J	Yes	0.227		Yes	0.0268	EMPC-J	Yes	0.0442		Yes	0.0477		Yes	0.0059	J	Yes	C12	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.33		Yes	0.0231		Yes	1.44		Yes	0.0772		Yes	0.0281		Yes	0.0204	U	No	0.00895	EMPC-J	Yes	C12	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.0264		Yes	0.000959	J	Yes	0.0924		Yes	0.00732		Yes	0.00364		Yes	0.00866	U	No	0.00194	J	Yes	C12	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.0296		Yes	0.00142	J	Yes	0.0926		Yes	0.00814		Yes	0.00628		Yes	0.011	U	No	0.00222	J	Yes	C12	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.468		Yes	0.0146		Yes	0.923		Yes	0.0785		Yes	0.0199		Yes	0.0957		Yes	0.0112		Yes	C12	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.00411		Yes	0.000418	J	Yes	0.0155		Yes	0.00183	J	Yes	0.00226		Yes	0.00696	U	No	0.000994	J	Yes	C12	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.0105		Yes	0.00062	J	Yes	0.0367		Yes	0.00474		Yes	0.00416		Yes	0.00755	U	No	0.0012	J	Yes	C12	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	0.051		Yes	0.00203	U	No	0.283	J	Yes	0.0106		Yes	0.00358	J	Yes	0.0275	U	No	0.00251	J	Yes	C12	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	0.0973		Yes	0.00664		Yes	0.308	J	Yes	0.0234		Yes	0.0118		Yes	0.0447		Yes	0.00966	EMPC-J	Yes	C12	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	0.722		Yes	0.037		Yes	1.97	J	Yes	0.147		Yes	0.0389		Yes	0.0687		Yes	0.0216		Yes	C12	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	0.23		Yes	0.0306		Yes	0.727	J	Yes	0.0944		Yes	0.0745		Yes	0.083		Yes	0.0158	J	Yes	C12	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.0535		Yes	0.0029	U	No	0.288	J	Yes	0.0194		Yes	0.0042	J	Yes	0.0253	U	No	0.00302	U	No	C12	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	0.0612		Yes	0.00671	J	Yes	0.211	J	Yes	0.0275		Yes	0.0209		Yes	0.0296	U	No	0.00475	J	Yes	C12	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	3.53		Yes	0.226		Yes	8.53	J	Yes	0.723		Yes	0.24		Yes	0.588		Yes	0.072		Yes	C12	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	0.912		Yes	0.0631		Yes	2.49		Yes	0.278		Yes	0.118		Yes	0.164		Yes	0.0287	J	Yes	C12	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	1		Yes	0.0909		Yes	3.11		Yes	0.295		Yes	0.104		Yes	0.301		Yes	0.0319	J	Yes	C12	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	0.642		Yes	0.0612		Yes	2.19		Yes	0.261		Yes	0.172		Yes	0.0103	U	No	0.208		Yes	C12	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	0.794		Yes	0.072		Yes	2.57		Yes	0.317		Yes	0.172		Yes	0.167		Yes	0.00714	U	No	C12	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	0.741		Yes	0.0518		Yes	1.96		Yes	0.171		Yes	0.0548		Yes	0.286		Yes	0.0169		Yes	C12	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	1.97		Yes	0.114		Yes	4.81	J	Yes	0.403		Yes	0.121		Yes	0.61		Yes	0.0298		Yes	C12	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	2.76		Yes	0.176		Yes	7.11	J	Yes	0.657		Yes	0.214		Yes	1.11		Yes	0.0447		Yes	C12	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	0.487		Yes	0.0326		Yes	1.28		Yes	0.149		Yes	0.0517		Yes	0.181		Yes	0.0142	EMPC-J	Yes	C12	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	0.584	J	Yes	0.0433		Yes	1.55	J	Yes	0.137	J	Yes	0.0454		Yes	0.15	J	Yes	0.0152		Yes	C12	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	0.318		Yes	0.0218		Yes	0.84		Yes	0.0967		Yes	0.0327		Yes	0.114		Yes	0.0094		Yes	C12	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	1.08		Yes	0.0829		Yes	3.11		Yes	0.3		Yes	0.0781		Yes	0.394		Yes	0.0145		Yes	C12	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	0.446		Yes	0.0427		Yes	1.36		Yes	0.183		Yes	0.072		Yes	0.16		Yes	0.0113		Yes	C12	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	0.4		Yes	0.0339		Yes	1.27		Yes	0.162		Yes	0.0627		Yes	0.127		Yes	0.00849	J	Yes	C12	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	0.804		Yes	0.0709		Yes	2.66		Yes	0.323		Yes	0.174		Yes	0.312		Yes	0.0265		Yes	C12	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	1.61		Yes	0.111		Yes	4.13	J	Yes	0.379		Yes	0.187		Yes	0.3		Yes	0.0533	EMPC-J	Yes	C12	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	1.3		Yes	0.082	EMPC-J	Yes	3.32	J	Yes	0.378		Yes	0.0914		Yes	0.124		Yes	0.029	J	Yes	C12	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	1.83		Yes	0.142		Yes	4.58	J	Yes	0.576		Yes	0.206		Yes	0.254		Yes	0.041		Yes	C12	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	2.33		Yes	0.167		Yes	5.63	J	Yes	0.591		Yes	0.228		Yes	0.355		Yes	0.042	J	Yes	C12	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	2.61		Yes	0.161		Yes	5.95	J	Yes	0.614		Yes	0.237		Yes	0.341		Yes	0.0433	J	Yes	C12	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	2.98		Yes	0.187		Yes	7.23	J	Yes	0.611		Yes	0.198		Yes	0.596		Yes	0.0572		Yes	C12	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	0.78		Yes	0.0536		Yes	2.11		Yes	0.238		Yes	0.0974		Yes	0.169		Yes	0.0242	EMPC-J	Yes	C12	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	1.03		Yes	0.0884		Yes	3.11		Yes	0.297		Yes	0.0959		Yes	0.33		Yes	0.0264	J	Yes	C12	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	0.581		Yes	0.0555		Yes	1.93		Yes	0.237		Yes	0.141		Yes	0.0532		Yes	0.147		Yes	C12	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	0.666		Yes	0.0596		Yes	2.15		Yes	0.267		Yes	0.136		Yes	0.154		Yes	0.00517	J	Yes	C12	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	0.183		Yes	0.00332	U	No	0.684	J	Yes	0.0272	EMPC-J	Yes	0.0105	J	Yes	0.0578		Yes	0.0124	J	Yes	C12	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	0.294		Yes	0.0355		Yes	0.523		Yes	0.119		Yes	0.124		Yes	0.0162	UJ	No	0.00748	J	Yes	C12	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	0.684		Yes	0.0735	EMPC-J	Yes	1.36		Yes	0.273		Yes	0.202		Yes	0.0255	UJ	No	0.0114	J	Yes	C12	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	0.792		Yes	0.0802		Yes	1.94	J	Yes	0.22		Yes	0.174		Yes	0.0313	U	No	0.00304	U	No	C12	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.0321		Yes	0.00184	EMPC-J	Yes	0.123		Yes	0.00535		Yes	0.00224		Yes	0.0157	U	No	0.00404	EMPC-J	Yes	C12	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.0591		Yes	0.00651	EMPC-J	Yes	0.12		Yes	0.0227		Yes	0.0279		Yes	0.0058	U	No	0.00411	J	Yes	C12	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	0.201		Yes	0.0217		Yes	0.435		Yes	0.0759		Yes	0.051		Yes	0.0512	U	No	0.00444	J	Yes	C12	

BERA Tissue Chemistry Data from Above Dundee Dam

						PCB-14		
						µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01		0.000821	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02		0.000871	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03		0.00108	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04		0.000732	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008		0.000638	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05		0.000633	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002		0.000482	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006		0.000599	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007		0.00058	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026		0.000446	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01		0.00271	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02		0.00665	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03		0.00347	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04		0.00384	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008		0.00288	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05		0.00153	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002		0.00205	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006		0.00241	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007		0.00359	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026		0.00143	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011		0.000887	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019		0.00152	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001		0.0107	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003		0.00056	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005		0.000564	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022		0.000918	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01		0.000841	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02		0.00182	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03		0.00111	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04		0.00106	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008		0.000881	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05		0.000496	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002		0.000594	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006		0.000715	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007		0.000912	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026		0.000463	U	No
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01		0.00119	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013		0.000435	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044		0.000193	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061		0.000172	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007		0.000612	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058		0.000223	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066		0.000217	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035		0.00182	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055		0.000663	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057		0.00169	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004		0.00246	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006		0.0026	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052		0.00132	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008		0.00296	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011		0.00388	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018		0.00577	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028		0.00866	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029		0.00608	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002		0.00107	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008		0.00131	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009		0.00388	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011		0.00196	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012		0.00145	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014		0.000706	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018		0.00242	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028		0.00239	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029		0.00164	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030		0.00214	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001		0.00796	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003		0.00409	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005		0.00589	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007		0.00588	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016		0.00513	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008		0.00119	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011		0.00164	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018		0.00236	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028		0.00336	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029		0.00232	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004		0.00297	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001		0.00292	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002		0.00402	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003		0.00261	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004		0.000307	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001		0.000492	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002		0.0014	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-15			PCB-16			PCB-17			PCB-18			PCB-19			PCB-20			PCB-21			PCB-22	
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg	
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.0353		Yes	0.0562		Yes	0.11		Yes	0.457		Yes	0.0514		Yes	8.25	J	Yes	0.00276	U	No	0.459	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.0365		Yes	0.0795		Yes	0.205		Yes	0.866		Yes	0.159		Yes	5.97		Yes	0.00244	U	No	0.664	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	0.0443		Yes	0.0617		Yes	0.109		Yes	0.411		Yes	0.0806		Yes	9.76	J	Yes	0.0572		Yes	0.533	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	0.043		Yes	0.0435		Yes	0.0827		Yes	0.422		Yes	0.0997		Yes	11.3	J	Yes	0.045		Yes	0.585	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	0.0601		Yes	0.101		Yes	0.192		Yes	0.686		Yes	0.17		Yes	15.1	J	Yes	0.078		Yes	1.01	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	0.0507		Yes	0.0285		Yes	0.0465		Yes	0.186		Yes	0.0646		Yes	3.68		Yes	0.00186	U	No	0.193	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.0389		Yes	0.0412		Yes	0.073		Yes	0.227		Yes	0.0775		Yes	4.1		Yes	0.0261		Yes	0.295	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.0194		Yes	0.0214		Yes	0.048		Yes	0.149		Yes	0.0621		Yes	3.33		Yes	0.00249	U	No	0.265	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.0284		Yes	0.038		Yes	0.0902		Yes	0.42		Yes	0.129		Yes	8.69	J	Yes	0.0331		Yes	0.715	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	0.0776		Yes	0.0352		Yes	0.0596		Yes	0.301		Yes	0.0941		Yes	24.8	J	Yes	0.0499		Yes	0.996	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.0218		Yes	0.0321		Yes	0.0327		Yes	0.302		Yes	0.0333		Yes	2.04		Yes	0.0129		Yes	0.147	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.0245	EMPC-J	Yes	0.0642		Yes	0.0676		Yes	0.776		Yes	0.168		Yes	2.32		Yes	0.0113		Yes	0.317	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	0.0552		Yes	0.0502		Yes	0.135		Yes	0.51		Yes	0.108		Yes	7.4		Yes	0.0339		Yes	0.483	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	0.0474		Yes	0.0586		Yes	0.0352		Yes	0.476		Yes	0.119		Yes	6.09		Yes	0.0197		Yes	0.377	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.0612		Yes	0.0704		Yes	0.156		Yes	0.584		Yes	0.166		Yes	8.6	J	Yes	0.0244		Yes	0.665	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.0739		Yes	0.0361		Yes	0.0579		Yes	0.238		Yes	0.0844		Yes	4.99		Yes	0.00489	U	No	0.276	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	0.057		Yes	0.0513		Yes	0.0969		Yes	0.296		Yes	0.107		Yes	3.38		Yes	0.0147		Yes	0.306	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.0203		Yes	0.0159		Yes	0.0376		Yes	0.135		Yes	0.0652		Yes	1.53		Yes	0.00138	U	No	0.153	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.0314		Yes	0.0364		Yes	0.0977		Yes	0.464		Yes	0.16		Yes	5.72		Yes	0.01	U	No	0.57	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	0.109		Yes	0.0418		Yes	0.0802		Yes	0.407		Yes	0.133		Yes	25.5	J	Yes	0.0482		Yes	1.09	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.0381		Yes	0.113		Yes	0.305		Yes	0.487		Yes	0.0629		Yes	3.99		Yes	0.00198	U	No	0.366	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	0.0733		Yes	0.0507		Yes	0.0825		Yes	0.286		Yes	0.0955		Yes	8.41	J	Yes	0.0427		Yes	0.37	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.0124	J	Yes	0.00809	U	No	0.0221		Yes	0.0325		Yes	0.00869	EMPC-J	Yes	0.802		Yes	0.0131	U	No	0.0395	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.00663		Yes	0.00364		Yes	0.00614		Yes	0.0142		Yes	0.00675		Yes	0.0925		Yes	0.00254		Yes	0.0131	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.018		Yes	0.0177		Yes	0.0331		Yes	0.122		Yes	0.0279		Yes	2.38		Yes	0.0132		Yes	0.116	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	0.0342		Yes	0.0367		Yes	0.0679		Yes	0.165		Yes	0.0406		Yes	5.2		Yes	0.0272		Yes	0.118	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.0291		Yes	0.0452		Yes	0.0748		Yes	0.386		Yes	0.0431		Yes	5.42	J	Yes	0.00663		Yes	0.317	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.0307	EMPC-J	Yes	0.0722		Yes	0.139		Yes	0.823		Yes	0.163		Yes	4.22		Yes	0.00606		Yes	0.497	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	0.0495		Yes	0.0563		Yes	0.121		Yes	0.458		Yes	0.0936		Yes	8.64	J	Yes	0.0462		Yes	0.509	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	0.045		Yes	0.0503		Yes	0.0614		Yes	0.446		Yes	0.108		Yes	8.97	J	Yes	0.0337		Yes	0.492	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	0.0607		Yes	0.0857		Yes	0.174		Yes	0.635		Yes	0.168		Yes	11.8	J	Yes	0.0511		Yes	0.837	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	0.06		Yes	0.0315		Yes	0.0511		Yes	0.207		Yes	0.0725		Yes	4.21		Yes	0.00154	U	No	0.226	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.047		Yes	0.0457		Yes	0.0838		Yes	0.258		Yes	0.0908		Yes	3.78		Yes	0.021		Yes	0.3	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.0198		Yes	0.0189		Yes	0.0432		Yes	0.143		Yes	0.0635		Yes	2.5		Yes	0.00099	U	No	0.214	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.0296		Yes	0.0373		Yes	0.0933		Yes	0.438		Yes	0.142		Yes	7.46	J	Yes	0.0215		Yes	0.655	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.0929		Yes	0.0384		Yes	0.0697		Yes	0.353		Yes	0.113		Yes	25.1	J	Yes	0.0491		Yes	1.04	
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	0.0274		Yes	0.515		Yes	0.921		Yes	1.72		Yes	0.344		Yes	3.6		Yes	0.293		Yes	0.422	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.116		Yes	2.33		Yes	2.73		Yes	4.27		Yes	0.199		Yes	4.86		Yes	1		Yes	2.03	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.0147		Yes	0.221		Yes	0.172		Yes	0.473		Yes	0.016		Yes	2.02		Yes	0.0897		Yes	0.558	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.016		Yes	0.196		Yes	0.195		Yes	0.38		Yes	0.0211		Yes	1.08		Yes	0.0775		Yes	0.3	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.0876		Yes	1.72		Yes	1.77		Yes	3.98		Yes	0.202		Yes	2.89		Yes	0.425		Yes	1.28	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.00573		Yes	0.0383		Yes	0.0327		Yes	0.0792		Yes	0.00854		Yes	0.357		Yes	0.0121		Yes	0.0643	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.00686		Yes	0.0768		Yes	0.0696		Yes	0.148		Yes	0.0103		Yes	0.478		Yes	0.0246		Yes	0.11	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	0.0246	EMPC-J	Yes	0.164		Yes	0.272		Yes	0.789		Yes	0.0648		Yes	6.46		Yes	0.0967		Yes	1.33	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	0.0702		Yes	0.78		Yes	0.813		Yes	1.57		Yes	0.079		Yes	3.16		Yes	0.291		Yes	1.01	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	0.257		Yes	5.98	J	Yes	7.77	J	Yes	12.6	J	Yes	0.387		Yes	12.1	J	Yes	1.34		Yes	4.9	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	0.138		Yes	0.922		Yes	1.62		Yes	2.19		Yes	0.229		Yes	3.47		Yes	0.498		Yes	1.1	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.0284		Yes	0.151		Yes	0.234		Yes	0.466		Yes	0.0673		Yes	3.54		Yes	0.135		Yes	0.889	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	0.052		Yes	0.346		Yes	0.481		Yes	0.781		Yes	0.0731		Yes	2.7		Yes	0.106		Yes	0.677	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	0.559		Yes	11.1	J	Yes	17	J	Yes	43.2	J	Yes	1.11		Yes	67.2	J	Yes	12.4	J	Yes	19.1	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	0.234		Yes	4.51	J	Yes	6.77	J	Yes	16.6	J	Yes	1.4		Yes	15.3	J	Yes	2.61		Yes	4.91	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	0.301		Yes	2.17		Yes	5.44	J	Yes	10.7	J	Yes	0.345		Yes	27.9	J	Yes	4.56		Yes	7.9	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	0.221		Yes	1.72		Yes	3.54		Yes	7.78	J	Yes	0.346		Yes	20.1	J	Yes	2.58		Yes	5.59	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	0.197		Yes	1.78		Yes	4.51	J	Yes	10	J	Yes	0.33		Yes	24.1	J	Yes	3.86		Yes	6.83	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	0.136		Yes	2.9		Yes	5.24	J	Yes	11.4	J	Yes	0.303		Yes	10.3	J	Yes	1.87		Yes	3.62	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	0.275		Yes	6.45	J	Yes	11	J	Yes	28.8	J	Yes	0.539		Yes	21.5	J	Yes	4.07		Yes	6.55	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	0.45		Yes	0.00312	U	No	17.2	J	Yes	43.7	J	Yes	3.13		Yes	21.6	J	Yes	3.61		Yes	6.03	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	0.104		Yes	2.57		Yes	4.04	J	Yes	10.2	J	Yes	0.633		Yes	7.01		Yes	1.16		Yes	2.06	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	0.0998		Yes	2.39		Yes	3.76		Yes	7.49		Yes	0.605		Yes	5.88		Yes	1.5		Yes	2.22	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	0.0694		Yes	0.878		Yes	1.48		Yes	4.49		Yes	0.105		Yes	5.65		Yes	0.774		Yes	1.87	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	0.2		Yes	1.83		Yes	4.72	J	Yes	9.46	J	Yes	0.26		Yes	13.8	J	Yes	2.26		Yes	3.9	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	0.0968		Yes	1.01		Yes	2.15		Yes	4.8		Yes	0.18		Yes	7.24		Yes	0.971		Yes	2.04	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	0.0707		Yes	0.774		Yes	1.83		Yes	4.23		Yes	0.122		Yes	5.79		Yes	1.02		Yes	1.84	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	0.256		Yes	4.37	J	Yes	6.29	J	Yes	15	J	Yes	1.45		Yes	15.5	J	Yes	2.67		Yes	4.49	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	0.438		Yes	10.1	J	Yes	13.5	J	Yes	28.5	J	Yes	2.68		Yes	37.3	J	Yes	6.68		Yes	10.8	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	0.311		Yes	5.96	J	Yes	10.6	J	Yes	24.4	J	Yes	1.43		Yes	11.4	J	Yes	2.67		Yes	4.79	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	0.403		Yes	5.46	J	Yes	9.73	J	Yes	24.3	J	Yes	1.94		Yes	19.7	J	Yes	3.47		Yes	6.48	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	0.488		Yes	9.56	J	Yes	13.4	J	Yes	29.2	J	Yes	2.81		Yes	14.4	J	Yes	3.2		Yes	5.19	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	0.44		Yes	7.79	J	Yes	13.1	J	Yes	30.3	J	Yes	2.83		Yes	19.6	J	Yes	4.09		Yes	6.5	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	0.46		Yes	9.47	J	Yes	14.9	J	Yes	38.2	J	Yes	0.91		Yes	51.2	J	Yes	9.48	J	Yes	14.7	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	0.194		Yes	3.91	J	Yes	5.92	J	Yes	14.6	J	Yes	1.16		Yes	12.7	J	Yes	2.16		Yes	4.02	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	0.269		Yes	2.06		Yes	5.21	J	Yes	10.3	J	Yes	0.318		Yes	23.5	J	Yes	3.84		Yes	6.64	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	0.182		Yes	1.5		Yes	3.11		Yes	6.86	J	Yes	0.295		Yes	16.1	J	Yes	2.08		Yes	4.49	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	0.156		Yes	1.45		Yes	3.64	J	Yes	8.12	J	Yes	0.262		Yes	18.1	J	Yes	2.94		Yes	5.21	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	0.0975		Yes	1.24		Yes	1.77		Yes	3.37		Yes	0.424		Yes	13.7	J	Yes	0.336		Yes	3.65	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	0.0403		Yes	0.77		Yes	2.54		Yes	3.82		Yes	0.674		Yes	3.82		Yes	0.0666		Yes	0.649	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	0.0949		Yes	1.86		Yes	4.33	J	Yes	5.78		Yes	1.35		Yes	6.17		Yes	0.171		Yes	1.32	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	0.0742		Yes	1.29		Yes	3.86	J	Yes	5.52		Yes	1.16		Yes	11.2	J	Yes	0.479		Yes	2.39	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.0219		Yes	0.259		Yes	0.33		Yes	0.645		Yes	0.0778		Yes	3.23		Yes	0.081		Yes	0.927	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.011		Yes	0.237		Yes	0.535		Yes	0.842		Yes	0.163		Yes	1.96		Yes	0.0334		Yes	0.317	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	0.0264		Yes	0.61		Yes	1.28		Yes	1.73		Yes	0.399		Yes	2.51		Yes	0.0639		Yes	0.538	

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-23			PCB-24			PCB-25			PCB-26			PCB-27			PCB-28			PCB-29			
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	Yes	0.00291	U	No	0.0145		Yes	0.0028	U	No	0.951		Yes	0.031		Yes	C20			C26			C18
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	Yes	0.00257	U	No	0.0349		Yes	0.00248	U	No	0.67		Yes	0.0748		Yes	C20			C26			C18
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	Yes	0.0021	U	No	0.0139		Yes	0.0727		Yes	1.23		Yes	0.0313		Yes	C20			C26			C18
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	Yes	0.0029	U	No	0.0202		Yes	0.0579		Yes	1.39	J	Yes	0.034		Yes	C20			C26			C18
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	Yes	0.0036	U	No	0.0251		Yes	0.172		Yes	2.04		Yes	0.0558		Yes	C20			C26			C18
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	Yes	0.00196	U	No	0.01		Yes	0.00189	U	No	0.472		Yes	0.0192		Yes	C20			C26			C18
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	Yes	0.00162	U	No	0.0118		Yes	0.0387		Yes	0.48		Yes	0.0309		Yes	C20			C26			C18
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	Yes	0.00263	U	No	0.00804		Yes	0.0368		Yes	0.422		Yes	0.0182		Yes	C20			C26			C18
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	Yes	0.00284	U	No	0.0222		Yes	0.0891		Yes	1.04		Yes	0.046		Yes	C20			C26			C18
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	Yes	0.00376	U	No	0.0122		Yes	0.0624		Yes	3.04		Yes	0.0324		Yes	C20			C26			C18
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	Yes	0.00109	U	No	0.0224		Yes	0.00107	U	No	0.227		Yes	0.0272		Yes	C20			C26			C18
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	Yes	0.00102	U	No	0.0527		Yes	0.001	U	No	0.23		Yes	0.0668		Yes	C20			C26			C18
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	Yes	0.013		Yes	0.026		Yes	0.0406		Yes	0.875		Yes	0.0385		Yes	C20			C26			C18
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	Yes	0.00292	U	No	0.0367		Yes	0.00288	U	No	0.685		Yes	0.043		Yes	C20			C26			C18
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	Yes	0.0135	U	No	0.0175		Yes	0.0621		Yes	0.98		Yes	0.0449		Yes	C20			C26			C18
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	Yes	0.005	U	No	0.0125		Yes	0.0201		Yes	0.595		Yes	0.028		Yes	C20			C26			C18
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	Yes	0.00489	U	No	0.0122		Yes	0.0204		Yes	0.344		Yes	0.0403		Yes	C20			C26			C18
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	Yes	0.00141	U	No	0.00623		Yes	0.011		Yes	0.173		Yes	0.0169		Yes	C20			C26			C18
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	Yes	0.00996	U	No	0.0206		Yes	0.034		Yes	0.6		Yes	0.0424		Yes	C20			C26			C18
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	Yes	0.0102	U	No	0.0165		Yes	0.0476		Yes	2.73		Yes	0.0404		Yes	C20			C26			C18
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	Yes	0.00206	U	No	0.0121		Yes	0.0949		Yes	0.473		Yes	0.0358		Yes	C20			C26			C18
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	Yes	0.00295	U	No	0.0174		Yes	0.057		Yes	1.22		Yes	0.0367		Yes	C20			C26			C18
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	Yes	0.0136	U	No	0.00533	U	No	0.0145		Yes	0.0782		Yes	0.00502	U	No	C20			C26			C18
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	Yes	0.000837	U	No	0.000571	U	No	0.00321		Yes	0.015		Yes	0.00208	EMPC-J	Yes	C20			C26			C18
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	Yes	0.00151	U	No	0.0079		Yes	0.0225		Yes	0.252		Yes	0.0143		Yes	C20			C26			C18
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	Yes	0.00141	U	No	0.00819		Yes	0.023		Yes	0.518		Yes	0.0204		Yes	C20			C26			C18
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	Yes	0.00104	U	No	0.0181		Yes	0.00101	U	No	0.621		Yes	0.0293		Yes	C20			C26			C18
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	Yes	0.000913	U	No	0.0434		Yes	0.000885	U	No	0.459		Yes	0.071		Yes	C20			C26			C18
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	Yes	0.0067		Yes	0.0196		Yes	0.0575		Yes	1.06		Yes	0.0347		Yes	C20			C26			C18
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	Yes	0.00145	U	No	0.0276		Yes	0.0326		Yes	1.07	J	Yes	0.038		Yes	C20			C26			C18
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	Yes	0.00428	U	No	0.0213		Yes	0.117		Yes	1.51		Yes	0.0503		Yes	C20			C26			C18
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	Yes	0.00159	U	No	0.011		Yes	0.00863		Yes	0.521		Yes	0.0227		Yes	C20			C26			C18
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	Yes	0.00155	U	No	0.012		Yes	0.0305		Yes	0.419		Yes	0.0351		Yes	C20			C26			C18
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	Yes	0.00104	U	No	0.00721		Yes	0.025		Yes	0.308		Yes	0.0176		Yes	C20			C26			C18
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	Yes	0.00289	U	No	0.0215		Yes	0.0663		Yes	0.858		Yes	0.0445		Yes	C20			C26			C18
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	Yes	0.00345	U	No	0.0143		Yes	0.0552		Yes	2.89		Yes	0.0363		Yes	C20			C26			C18
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	Yes	0.00189	U	No	0.0562		Yes	0.132		Yes	0.372		Yes	0.28		Yes	C20			C26			C18
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	Yes	0.019		Yes	0.0898		Yes	0.0891		Yes	0.401		Yes	0.334		Yes	C20			C26			C18
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	Yes	0.000731	U	No	0.0173		Yes	0.018		Yes	0.169		Yes	0.0375		Yes	C20			C26			C18
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	Yes	0.000732	U	No	0.0113		Yes	0.0251		Yes	0.113		Yes	0.0428		Yes	C20			C26			C18
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	Yes	0.0141		Yes	0.000383	U	No	0.094		Yes	0.335		Yes	0.263		Yes	C20			C26			C18
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	Yes	0.000366	U	No	0.00458		Yes	0.00705		Yes	0.0358		Yes	0.0102		Yes	C20			C26			C18
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	Yes	0.000257	U	No	0.00777		Yes	0.00945		Yes	0.0525		Yes	0.0222		Yes	C20			C26			C18
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes	0.00649	U	No	0.0279		Yes	0.0402		Yes	0.393		Yes	0.0227		Yes	C20			C26			C18
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	Yes	0.00217	U	No	0.0327		Yes	0.054		Yes	0.223		Yes	0.144		Yes	C20			C26			C18
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes	0.00678	U	No	0.18		Yes	0.22		Yes	1.24		Yes	0.875		Yes	C20			C26			C18
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes	0.00696	U	No	0.093		Yes	0.0935		Yes	0.348		Yes	0.29		Yes	C20			C26			C18
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes	0.00564	U	No	0.0304		Yes	0.0311		Yes	0.257		Yes	0.0167		Yes	C20			C26			C18
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	Yes	0.0028	U	No	0.0327		Yes	0.0284		Yes	0.164		Yes	0.103		Yes	C20			C26			C18
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes	0.0502	U	No	0.646		Yes	4.88	J	Yes	11.2	J	Yes	3.06		Yes	C20			C26			C18
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes	0.0188	U	No	0.271		Yes	1.12		Yes	2.41		Yes	1.58		Yes	C20			C26			C18
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes	0.0196	U	No	0.345		Yes	1.85		Yes	4.14		Yes	0.773		Yes	C20			C26			C18
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	Yes	0.0605		Yes	0.283		Yes	1.2		Yes	2.94		Yes	0.718		Yes	C20			C26			C18
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes	0.088		Yes	0.395		Yes	1.28		Yes	3.49		Yes	0.8		Yes	C20			C26			C18
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes	0.0518		Yes	0.000543	U	No	0.614		Yes	1.38		Yes	0.717		Yes	C20			C26			C18
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes	0.121		Yes	0.000757	U	No	1.29		Yes	3.2		Yes	1.71		Yes	C20			C26			C18
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes	0.112		Yes	5.84	J	Yes	1.21		Yes	3.34		Yes	1.83		Yes	C20			C26			C18
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes	0.0319		Yes	0.000937	U	No	0.445		Yes	0.984		Yes	0.905		Yes	C20			C26			C18
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes	0.0273	J	Yes	0.000705	U	No	0.336		Yes	0.735		Yes	0.624		Yes	C20			C26			C18
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes	0.0236		Yes	0.000621	U	No	0.332		Yes	0.735		Yes	0.303		Yes	C20			C26			C18
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes	0.0638		Yes	0.000766	U	No	0.809		Yes	2.1		Yes	0.506		Yes	C20			C26			C18
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes	0.0213	EMPC-J	Yes	0.00108	U	No	0.389		Yes	1.03		Yes	0.378		Yes	C20			C26			C18
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes	0.0216		Yes	0.000867	U	No	0.312		Yes	0.833		Yes	0.312		Yes	C20			C26			C18
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes	0.0529		Yes	0.00123	U	No	0.883		Yes	2.05		Yes	1.55		Yes	C20			C26			C18
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes	0.182		Yes	0.00503	U	No	2.55		Yes	5.42		Yes	2.54		Yes	C20			C26			C18
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	Yes	0.0107	U	No	0.252		Yes	0.771		Yes	1.69		Yes	1.51		Yes	C20			C26			C18
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes	0.09		Yes	0.368		Yes	1.23		Yes	2.9		Yes	1.7		Yes	C20			C26			C18
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes	0.0135	U	No	0.00408	U	No	1.14		Yes	2.07		Yes	2.06		Yes	C20			C26			C18
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes	0.0202	U	No	0.647		Yes	1.15		Yes	2.84		Yes	2.08		Yes	C20			C26			C18
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes	0.0587		Yes	0.42		Yes	3.62	J	Yes	8.4	J	Yes	2.59		Yes	C20			C26			C18
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes	0.0164		Yes	0.187		Yes	0.91		Yes	1.97		Yes	1.37		Yes	C20			C26			C18
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes	0.0268		Yes	0.237		Yes	1.52		Yes	3.5		Yes	0.689		Yes	C20			C26			C18
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes	0.0483	EMPC-J	Yes	0.195		Yes	0.949		Yes	2.35		Yes	0.613		Yes	C20			C26			C18
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes	0.0664		Yes	0.267		Yes	0.965		Yes	2.63		Yes	0.641		Yes	C20			C26			C18
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes	0.0106	U	No	0.112		Yes	0.188		Yes	1.13		Yes	0.105		Yes	C20			C26			C18
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes	0.0058	U	No	0.172		Yes	0.036		Yes	0.1		Yes	0.42		Yes	C20			C26			C18
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	Yes	0.00968	U	No	0.176		Yes	0.0607		Yes	0.211		Yes	0.653		Yes	C20			C26			C18
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes	0.0185	U	No	0.122		Yes	0.174		Yes	0.52		Yes	0.708		Yes	C20			C26			C18
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	Yes	0.00116	U	No	0.0193		Yes	0.0418		Yes	0.248		Yes	0.0204		Yes	C20			C26			C18
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	Yes	0.00435		Yes	0.0268		Yes	0.0164		Yes	0.0463		Yes	0.114		Yes	C20			C26			C18
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	Yes	0.00723		Yes	0.000611	U	No	0.0219		Yes	0.0794		Yes	0.192		Yes	C20			C26			C18

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-30		PCB-31			PCB-32			PCB-33			PCB-34			PCB-35			PCB-36			PCB-37		
					µg/kg		µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01			2.78		Yes	0.254		Yes	C21			0.0029	U	No	0.00298	U	No	0.00263	U	No	0.00344	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02			1.84		Yes	0.571		Yes	C21			0.00256	U	No	0.00264	U	No	0.00232	U	No	0.283		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03			3.48		Yes	0.293		Yes	C21			0.0161		Yes	0.00216	U	No	0.0019	U	No	0.00249	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04			4.24	J	Yes	0.329		Yes	C21			0.0169		Yes	0.00298	U	No	0.00262	U	No	0.00344	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008			5.8	J	Yes	0.643		Yes	C21			0.025		Yes	0.00381	U	No	0.0033	U	No	0.00436	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05			1.4		Yes	0.145		Yes	C21			0.00195	U	No	0.00201	U	No	0.00177	U	No	0.00232	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002			1.23		Yes	0.238		Yes	C21			0.00387		Yes	0.00166	U	No	0.00146	U	No	0.00192	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006			0.951		Yes	0.16		Yes	C21			0.0046		Yes	0.00269	U	No	0.00237	U	No	0.00311	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007			2.76		Yes	0.476		Yes	C21			0.0143		Yes	0.003	U	No	0.00261	U	No	0.00344	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026			11.2	J	Yes	0.227		Yes	C21			0.0189		Yes	0.00397	U	No	0.00344	U	No	0.158		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01			0.697		Yes	0.143		Yes	C21			0.0011	U	No	0.0012	U	No	0.00408		Yes	0.198		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02			0.672		Yes	0.424		Yes	C21			0.00103	U	No	0.00112	U	No	0.00675	EMPC-J	Yes	0.21		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03			2.56		Yes	0.327		Yes	C21			0.0048	U	No	0.00522	U	No	0.00466	U	No	0.359		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04			2.24		Yes	0.312		Yes	C21			0.00297	U	No	0.00389	EMPC-J	Yes	0.00566		Yes	0.268		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008			2.93		Yes	0.461		Yes	C21			0.0141	U	No	0.0155	U	No	0.0136	U	No	0.318		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05			1.77		Yes	0.182		Yes	C21			0.00508	U	No	0.00553	U	No	0.00493	U	No	0.184		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002			0.935		Yes	0.272		Yes	C21			0.00497	U	No	0.00541	U	No	0.00636	EMPC-J	Yes	0.168		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006			0.406		Yes	0.128		Yes	C21			0.00143	U	No	0.00156	U	No	0.00139	U	No	0.245		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007			1.64		Yes	0.411		Yes	C21			0.0104	U	No	0.0115	U	No	0.01	U	No	0.257		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026			10.9	J	Yes	0.276		Yes	C21			0.0155		Yes	0.0118	U	No	0.0103	U	No	0.182		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011			1.41		Yes	0.282		Yes	C21			0.00446		Yes	0.00217	U	No	0.00189	U	No	0.256		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019			3.34		Yes	0.185		Yes	C21			0.00571		Yes	0.00311	U	No	0.0027	U	No	0.00357	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001			0.21		Yes	0.0235		Yes	C21			0.0142	U	No	0.016	U	No	0.0131	U	No	0.111	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003			0.0376		Yes	0.0123		Yes	C21			0.000832	U	No	0.000884	U	No	0.000768	U	No	0.0195		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005			0.689		Yes	0.0512		Yes	C21			0.00151	U	No	0.0016	U	No	0.00139	U	No	0.00183	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022			1.23		Yes	0.119		Yes	C21			0.00233		Yes	0.00149	U	No	0.0013	U	No	0.00171	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01			1.83		Yes	0.203		Yes	C21			0.00104	U	No	0.00108	U	No	0.00258		Yes	0.0912		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02			1.28		Yes	0.5		Yes	C21			0.000913	U	No	0.000955	U	No	0.00384	EMPC-J	Yes	0.248		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03			3.04		Yes	0.309		Yes	C21			0.00962		Yes	0.0018	U	No	0.0016	U	No	0.17		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04			3.34	J	Yes	0.321		Yes	C21			0.00999		Yes	0.00257	EMPC-J	Yes	0.00326		Yes	0.121		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008			4.36	J	Yes	0.552		Yes	C21			0.016		Yes	0.00483	U	No	0.00423	U	No	0.16		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05			1.55		Yes	0.16		Yes	C21			0.0016	U	No	0.00171	U	No	0.00152	U	No	0.0745		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002			1.1		Yes	0.253		Yes	C21			0.00325		Yes	0.00167	U	No	0.00326	EMPC-J	Yes	0.0761		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006			0.701		Yes	0.145		Yes	C21			0.00282		Yes	0.00109	U	No	0.00096	U	No	0.113		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007			2.3		Yes	0.449		Yes	C21			0.0105		Yes	0.00326	U	No	0.00283	U	No	0.107		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026			11.1	J	Yes	0.251		Yes	C21			0.0172		Yes	0.0039	U	No	0.00339	U	No	0.17		Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01			1.91		Yes	0.843		Yes	C21			0.0105		Yes	0.00203	U	No	0.0018	U	No	0.0827		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013			1.13		Yes	1.6		Yes	C21			0.00127	U	No	0.00139	U	No	0.00123	U	No	0.143		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044			0.325		Yes	0.268		Yes	C21			0.0087		Yes	0.000811	U	No	0.000713	U	No	0.0257		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061			0.286		Yes	0.212		Yes	C21			0.00467		Yes	0.000812	U	No	0.000715	U	No	0.0236		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007			0.887		Yes	1.03		Yes	C21			0.00166	U	No	0.00182	U	No	0.0016	U	No	0.129		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058			0.0808		Yes	0.0531		Yes	C21			0.000936	J	Yes	0.000406	U	No	0.000357	U	No	0.00821		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066			0.105		Yes	0.0988		Yes	C21			0.00176		Yes	0.000285	U	No	0.000251	U	No	0.00915		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035			0.645		Yes	1.12		Yes	C21			0.0258		Yes	0.00735	U	No	0.00619	U	No	0.174		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055			0.59		Yes	0.708		Yes	C21			0.0155		Yes	0.00245	U	No	0.00206	U	No	0.124		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057			2.73		Yes	4.24	J	Yes	C21			0.0805		Yes	0.00768	U	No	0.00646	U	No	0.354		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004			0.923		Yes	1.06		Yes	C21			0.00724	U	No	0.00788	U	No	0.00664	U	No	0.265		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006			0.501		Yes	0.716		Yes	C21			0.00587	U	No	0.00638	U	No	0.00537	U	No	0.113		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052			0.44		Yes	0.465		Yes	C21			0.00291	U	No	0.00317	U	No	0.00267	U	No	0.145		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008			40.1	J	Yes	11.4	J	Yes	C21			0.421		Yes	0.0562	U	No	0.0497	U	No	1.35		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011			8.55	J	Yes	5.64	J	Yes	C21			0.0657		Yes	0.021	U	No	0.0186	U	No	0.588		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018			16	J	Yes	3.56		Yes	C21			0.111		Yes	0.022	U	No	0.0195	U	No	1.05		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028			10.7	J	Yes	2.88		Yes	C21			0.0301	U	No	0.0326	U	No	0.0288	U	No	0.728		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029			13	J	Yes	3.73		Yes	C21			0.0244	U	No	0.0264	U	No	0.0234	U	No	0.697		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002			5.24	J	Yes	2.74		Yes	C21			0.00285	U	No	0.00512		Yes	0.00273	U	No	0.376		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008			11.3	J	Yes	6.48	J	Yes	C21			0.00372	U	No	0.00841		Yes	0.00353	U	No	0.717		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009			12	J	Yes	10.2	J	Yes	C21			0.0042	U	No	0.0173		Yes	0.00403	U	No	1.02		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011			3.36		Yes	3.01		Yes	C21			0.00358	U	No	0.00379	U	No	0.00339	U	No	0.301		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012			2.89		Yes	2.25		Yes	C21			0.00173	U	No	0.00359		Yes	0.00166	U	No	0.186		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014			2.72		Yes	1.24		Yes	C21			0.00237	U	No	0.00257	U	No	0.00227	U	No	0.226		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018			7.53	J	Yes	2.46		Yes	C21			0.00319	U	No	0.00337	U	No	0.00302	U	No	0.728		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028			3.55		Yes	1.36		Yes	C21			0.00489	U	No	0.00518	U	No	0.00464	U	No	0.355		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029			3.02		Yes	1.14		Yes	C21			0.00302	U	No	0.0032	U	No	0.00287	U	No	0.256		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030			7.93	J	Yes	5.03	J	Yes	C21			0.00526	U	No	0.00573	U	No	0.00505	U	No	0.694		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001			19.8	J	Yes	11	J	Yes	C21			0.0291	U	No	0.0315	U	No	0.0279	U	No	0.869		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003			6.75	J	Yes	5.9	J	Yes	C21			0.0623		Yes	0.0117	U	No	0.0106	U	No	0.453		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005			10.1	J	Yes	6.83	J	Yes	C21			0.0159	U	No	0.0168	U	No	0.0153	U	No	0.818		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007			8.53	J	Yes	7.3	J	Yes	C21			0.0139	U	No	0.0148	U	No	0.0134	U	No	0.817		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016			10.2	J	Yes	8.34	J	Yes	C21			0.0935		Yes	0.0221	U	No	0.0201	U	No	0.734		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008			30	J	Yes	9.68	J	Yes	C21			0.274		Yes	0.0212		Yes	0.0168	U	No	1.13		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011			6.94	J	Yes	4.82	J	Yes	C21			0.0458		Yes	0.00782	U	No	0.00693	U	No	0.499		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018			13.3	J	Yes	3.21		Yes	C21			0.0766		Yes	0.00808	U	No	0.00716	U	No	0.949		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028			8.48	J	Yes	2.41		Yes	C21			0.0111	U	No	0.012	U	No	0.0107	U	No	0.612		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029			9.76	J	Yes	2.89		Yes	C21			0.00873	U	No	0.00943	U	No	0.00836	U	No	0.554		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004			3.11		Yes	1.1		Yes	C21			0.0469		Yes	0.012	U	No	0.0101	U	No	0.4		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001			0.283		Yes	1.43		Yes	C21			0.00598	U	No	0.00633	U	No	0.00575	U	No	0.245		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002			0.644		Yes	2.16		Yes	C21			0.0152		Yes	0.0106	U	No	0.0096	U	No	0.279		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003			1.65		Yes	2.62		Yes	C21			0.0254		Yes	0.0209	U	No	0.0176	U	No	0.287		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004			0.711		Yes	0.241		Yes	C21			0.0114		Yes	0.00129	U	No	0.00113	U	No	0.104		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001			0.125		Yes	0.421		Yes	C21			0.0013	U	No	0.00138	U	No	0.00123	U	No	0.0708		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002			0.242		Yes	0.698		Yes	C21			0.00149	U	No	0.00157	U	No	0.00141	U	No	0.121		Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-38			PCB-39			PCB-40			PCB-41			PCB-42			PCB-43			PCB-44			PCB-45	
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg	
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.0481		Yes	0.00259	U	No	1.3		Yes	0.00142	U	No	3.14		Yes	0.00148	U	No	42.3	J	Yes	0.327	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.0464		Yes	0.00229	U	No	2.12		Yes	0.00106	U	No	3.83	J	Yes	0.00111	U	No	37.3	J	Yes	0.321	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	0.0607		Yes	0.00187	U	No	0.945		Yes	0.00142	U	No	3.18		Yes	0.00149	U	No	52.9	J	Yes	0.322	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	0.054		Yes	0.00258	U	No	1.21		Yes	0.00151	U	No	3.48		Yes	0.00159	U	No	44.1	J	Yes	0.397	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	0.0734		Yes	0.0033	U	No	1.47		Yes	0.00142	U	No	5.14	J	Yes	0.00135	U	No	39.8	J	Yes	0.593	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	0.0257		Yes	0.00174	U	No	0.519		Yes	0.00159	U	No	1.52		Yes	0.00166	U	No	13.8	J	Yes	0.165	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.0231		Yes	0.00144	U	No	0.45		Yes	0.00145	U	No	1.62		Yes	0.00152	U	No	15.1	J	Yes	0.157	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.034		Yes	0.00234	U	No	0.513		Yes	0.00148	U	No	2.97		Yes	0.00155	U	No	21.8	J	Yes	0.121	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.0403		Yes	0.0026	U	No	0.891		Yes	0.00101	U	No	3.13		Yes	0.000956	U	No	24.5	J	Yes	0.302	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	0.0352		Yes	0.00344	U	No	0.521		Yes	0.00105	U	No	2.03		Yes	0.000996	U	No	16.9	J	Yes	0.155	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.031		Yes	0.00106	U	No	19.6	J	Yes	0.647		Yes	1.35		Yes	0.0344		Yes	16.5	J	Yes	0.0241	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.0444		Yes	0.000988	U	No	18.2	J	Yes	1.84		Yes	2.92		Yes	0.103		Yes	23	J	Yes	0.0694	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	0.0851		Yes	0.00459	U	No	29.1	J	Yes	0.924		Yes	3.05		Yes	0.0432		Yes	40.9	J	Yes	0.0626	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	0.0567		Yes	0.00284	U	No	23.4	J	Yes	1.15		Yes	2.98		Yes	0.043		Yes	32.8	J	Yes	0.0641	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.0691		Yes	0.0134	U	No	2.14		Yes	0.966		Yes	3.25		Yes	0.0397		Yes	22.3	J	Yes	0.322	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.0373		Yes	0.00486	U	No	12	J	Yes	0.544		Yes	1.64		Yes	0.00185	U	No	11.9		Yes	0.126	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	0.0301		Yes	0.00475	U	No	11.4	J	Yes	0.405		Yes	1.57		Yes	0.0013	U	No	11.8		Yes	0.0189	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.0374		Yes	0.00137	U	No	20.1	J	Yes	0.5		Yes	2.46		Yes	0.0193		Yes	18	J	Yes	0.0222	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.0379		Yes	0.00989	U	No	13.6	J	Yes	0.547		Yes	2.16		Yes	0.00148	U	No	15.1	J	Yes	0.0311	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	0.0401		Yes	0.0101	U	No	0.619		Yes	0.00179	U	No	2.28		Yes	0.028		Yes	15.9	J	Yes	0.168	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.0276		Yes	0.00188	U	No	0.558		Yes	0.0016	U	No	1.34		Yes	0.00152	U	No	16	J	Yes	0.147	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	0.0496		Yes	0.0027	U	No	0.668		Yes	0.00282	U	No	3.89	J	Yes	0.00267	U	No	31.5	J	Yes	0.396	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.015	U	No	0.0132	U	No	0.11		Yes	0.0115	U	No	0.313		Yes	0.0108	U	No	6.35		Yes	0.0482	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.000859	U	No	0.000767	U	No	0.0232		Yes	0.00119	U	No	0.0639		Yes	0.00113	U	No	1.15		Yes	0.0104	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.0209		Yes	0.00139	U	No	0.376		Yes	0.000968	U	No	0.805		Yes	0.000917	U	No	10.4		Yes	0.0921	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	0.037		Yes	0.00129	U	No	0.37		Yes	0.00123	U	No	1.23		Yes	0.00117	U	No	20.7	J	Yes	0.0897	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.0403		Yes	0.000946	U	No	9.64	J	Yes	0.295		Yes	2.32		Yes	0.0161		Yes	30.5	J	Yes	0.189	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.0454		Yes	0.000833	U	No	9.84	J	Yes	0.883		Yes	3.39	J	Yes	0.0497		Yes	30.4	J	Yes	0.2	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	0.0722		Yes	0.00158	U	No	14.3	J	Yes	0.437		Yes	3.12		Yes	0.0208		Yes	47.2	J	Yes	0.199	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	0.0552		Yes	0.00135	U	No	11.2	J	Yes	0.516		Yes	3.26		Yes	0.0197		Yes	39	J	Yes	0.248	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	0.0712		Yes	0.00418	U	No	1.81		Yes	0.484		Yes	4.19	J	Yes	0.0202		Yes	31	J	Yes	0.457	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	0.0304		Yes	0.0015	U	No	5.12	J	Yes	0.219		Yes	1.57		Yes	0.000868	U	No	13	J	Yes	0.149	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.0263		Yes	0.00146	U	No	5.38	J	Yes	0.183		Yes	1.6		Yes	0.000711	U	No	13.6	J	Yes	0.0949	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.0356		Yes	0.000947	U	No	9.5	J	Yes	0.23		Yes	2.74		Yes	0.00928		Yes	20.1	J	Yes	0.0757	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.0393		Yes	0.00281	U	No	6.14	J	Yes	0.226		Yes	2.73		Yes	0.000586	U	No	20.6	J	Yes	0.19	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.0376		Yes	0.00335	U	No	0.569		Yes	0.000706	U	No	2.15		Yes	0.0139		Yes	16.4	J	Yes	0.161	
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	0.011		Yes	0.00174	U	No	2.19		Yes	0.311		Yes	1.49		Yes	0.197		Yes	6.68		Yes	0.631	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.0111		Yes	0.00118	U	No	2.54		Yes	0.512		Yes	1.77		Yes	0.275		Yes	7.12		Yes	0.525	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.00301		Yes	0.000688	U	No	0.41		Yes	0.0931		Yes	0.304		Yes	0.0564		Yes	2		Yes	0.15	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.00201		Yes	0.000689	U	No	0.347		Yes	0.0414		Yes	0.223		Yes	0.0365		Yes	1.41		Yes	0.0922	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.00904		Yes	0.00155	U	No	1.88		Yes	0.316		Yes	1.32		Yes	0.203		Yes	5.42		Yes	0.355	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.000709	J	Yes	0.000344	U	No	0.066		Yes	0.00935		Yes	0.0562		Yes	0.00826		Yes	0.501		Yes	0.0315	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.000662	J	Yes	0.000823	J	Yes	0.156		Yes	0.0199		Yes	0.0882		Yes	0.0147		Yes	0.476		Yes	0.046	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	0.0239		Yes	0.0346		Yes	1.56		Yes	0.0408		Yes	1.71		Yes	0.382		Yes	16	J	Yes	0.282	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	0.00851		Yes	0.0138		Yes	2.12		Yes	0.267		Yes	1.37		Yes	0.251		Yes	7.65		Yes	0.346	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	0.0486		Yes	0.112		Yes	13.1	J	Yes	2.33		Yes	9.99	J	Yes	1.38		Yes	37.5	J	Yes	1.73	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	0.0126		Yes	0.0209	EMPC-J	Yes	3.34		Yes	0.666		Yes	2.19		Yes	0.327		Yes	9.31		Yes	0.396	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.016		Yes	0.0256		Yes	2		Yes	0.107		Yes	1.86		Yes	0.198		Yes	9.98		Yes	0.262	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	0.011		Yes	0.0093		Yes	1.69		Yes	0.277		Yes	1.35		Yes	0.203		Yes	9.17		Yes	0.214	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	0.129		Yes	0.395		Yes	33.4	J	Yes	3.13		Yes	27	J	Yes	4.97	J	Yes	112	J	Yes	8.72	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	0.0679		Yes	0.146		Yes	18.1	J	Yes	1.31		Yes	13.9	J	Yes	0.438		Yes	53.5	J	Yes	2.89	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	0.0713		Yes	0.126		Yes	11.3	J	Yes	1.61		Yes	9.55	J	Yes	1.61		Yes	53.8	J	Yes	2.31	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	0.0537		Yes	0.0942		Yes	9.35	J	Yes	1.15		Yes	8.31	J	Yes	1.55		Yes	46.7	J	Yes	1.92	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	0.0672		Yes	0.112		Yes	12.1	J	Yes	1.76		Yes	11.5	J	Yes	2.07		Yes	61.8	J	Yes	2.7	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	0.0393		Yes	0.00266	U	No	6.19		Yes	0.544		Yes	5.26	J	Yes	0.804		Yes	25.5	J	Yes	1.1	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	0.0781		Yes	0.00341	U	No	15.4	J	Yes	1.95		Yes	11.4	J	Yes	1.84		Yes	56.5	J	Yes	2.5	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	0.105		Yes	0.00392	U	No	17.5	J	Yes	1.85		Yes	18.8	J	Yes	2.13		Yes	88.5	J	Yes	4.03	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	0.0378		Yes	0.00328	U	No	7.47		Yes	0.629		Yes	5.85	J	Yes	0.69		Yes	23.4	J	Yes	1.21	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	0.0249	J	Yes	0.00162	U	No	5.96	J	Yes	0.73		Yes	4.41	J	Yes	0.572		Yes	17.8	J	Yes	0.981	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	0.0232		Yes	0.00221	U	No	3.26		Yes	0.226		Yes	2.6		Yes	0.463		Yes	14	J	Yes	0.576	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	0.0517		Yes	0.00292	U	No	7.9		Yes	1.06		Yes	6.76	J	Yes	1.07		Yes	37.7	J	Yes	1.06	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	0.0324		Yes	0.00449	U	No	3.96		Yes	0.482		Yes	3.63		Yes	0.619		Yes	20.1	J	Yes	0.594	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	0.0275		Yes	0.00277	U	No	3.2		Yes	0.433		Yes	3.1		Yes	0.511		Yes	16.6	J	Yes	0.482	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	0.068		Yes	0.0049	U	No	14.7	J	Yes	1.84		Yes	13.4	J	Yes	1.77		Yes	51.9	J	Yes	3.04	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	0.105		Yes	0.251		Yes	25.3	J	Yes	2.09		Yes	20.4	J	Yes	2.44		Yes	86.6	J	Yes	5.61	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	0.068		Yes	0.0102	U	No	21.6	J	Yes	2.36	J	Yes	16.3	J	Yes	2.07	J	Yes	57.5	J	Yes	2.27	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	0.108		Yes	0.326		Yes	32.3	J	Yes	3.05		Yes	29.6	J	Yes	3.8		Yes	127	J	Yes	5.21	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	0.0518		Yes	0.193		Yes	12.5	J	Yes	1.8		Yes	9.34	J	Yes	1.18		Yes	34.1	J	Yes	2.03	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	0.0926		Yes	0.296		Yes	28.1	J	Yes	3.59		Yes	24.7	J	Yes	3.45		Yes	106	J	Yes	4.27	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	0.111		Yes	0.257		Yes	27.1	J	Yes	2.72		Yes	21.5	J	Yes	3.87	J	Yes	92.6	J	Yes	6.54	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	0.0585		Yes	0.101		Yes	14.8	J	Yes	1.1		Yes	11.4	J	Yes	0.516		Yes	44.1	J	Yes	2.37	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	0.0651		Yes	0.0869		Yes	10.2	J	Yes	1.44		Yes	8.67	J	Yes	1.44		Yes	48.7	J	Yes	1.92	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	0.0471		Yes	0.0657		Yes	7.68	J	Yes	0.943		Yes	6.86	J	Yes	1.26		Yes	38.5	J	Yes	1.51	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	0.0543		Yes	0.0761		Yes	9.21	J	Yes	1.33		Yes	8.77	J	Yes	1.56		Yes	47.1	J	Yes	1.98	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	0.0564		Yes	0.0801		Yes	4.27		Yes	0.33		Yes	7.68	J	Yes	0.855		Yes	39.4	J	Yes	1.06	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	0.0368		Yes	0.0377		Yes	1.84		Yes	0.187		Yes	5.38	J	Yes	0.51		Yes	28.4	J	Yes	0.258	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	0.0559		Yes	0.0828		Yes	3.37		Yes	0.602		Yes	6.92	J	Yes	0.568		Yes	29.3	J	Yes	0.463	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	0.0402		Yes	0.0608		Yes	3.13		Yes	0.363		Yes	7.08	J	Yes	0.737		Yes	22.3	J	Yes	0.414	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.0138		Yes	0.00109	U	No	0.857		Yes	0.0595		Yes	1.46		Yes	0.17		Yes	7.63		Yes	0.296	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.0101		Yes	0.00119	U	No	0.508		Yes	0.0497		Yes	1.44		Yes	0.133		Yes	8.46		Yes	0.145	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	0.00867		Yes	0.00136	U	No	1.47		Yes	0.222		Yes	2.82		Yes	0.24		Yes	14.3	J	Yes	0.233	

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-46			PCB-47			PCB-48			PCB-49			PCB-50			PCB-51			PCB-52			
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	Yes	0.0241		Yes	C44			0.00118	U	No	4.41		Yes	0.202		Yes	0.132		Yes	67.8	J	Yes	C50
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	Yes	0.0741		Yes	C44			0.157		Yes	6.09		Yes	0.359		Yes	0.387		Yes	38.6	J	Yes	C50
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	Yes	0.0298		Yes	C44			0.00118	U	No	5.49		Yes	0.281		Yes	0.249		Yes	59.3	J	Yes	C50
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	Yes	0.0382		Yes	C44			0.00126	U	No	5.35		Yes	0.3	J	Yes	0.216		Yes	50.5	J	Yes	C50
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	Yes	0.0593		Yes	C44			0.107		Yes	8.02	J	Yes	0.582		Yes	0.371		Yes	60.1	J	Yes	C50
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	Yes	0.0165		Yes	C44			0.00132	U	No	2.16		Yes	0.139		Yes	0.0633		Yes	29	J	Yes	C50
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	Yes	0.0265		Yes	C44			0.00121	U	No	2.41		Yes	0.143		Yes	0.0611		Yes	25.3	J	Yes	C50
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	Yes	0.0151		Yes	C44			0.00123	U	No	4.65		Yes	0.117		Yes	0.0611		Yes	31.6	J	Yes	C50
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	Yes	0.0334		Yes	C44			0.0759		Yes	5.82		Yes	0.313		Yes	0.156		Yes	37.4	J	Yes	C50
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	Yes	0.0268		Yes	C44			0.0308		Yes	6.48		Yes	0.228		Yes	0.0669		Yes	33.8	J	Yes	C50
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	Yes	0.00387		Yes	C44			0.0523		Yes	1.38		Yes	0.0302		Yes	0.0459		Yes	24.9	J	Yes	C50
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	Yes	0.0215		Yes	C44			0.0977		Yes	3.51		Yes	0.102		Yes	0.158		Yes	23.2	J	Yes	C50
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	Yes	0.0133		Yes	C44			0.0582		Yes	4.49		Yes	0.145		Yes	0.242		Yes	54.7	J	Yes	C50
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	Yes	0.0129		Yes	C44			0.0495		Yes	3.82		Yes	0.115		Yes	0.182		Yes	37.9	J	Yes	C50
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	Yes	0.0193		Yes	C44			0.0617		Yes	4.88		Yes	0.178		Yes	0.114		Yes	42.5	J	Yes	C50
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	Yes	0.0101		Yes	C44			0.00157	U	No	2.02		Yes	0.111		Yes	0.0671		Yes	32.7	J	Yes	C50
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	Yes	0.0121		Yes	C44			0.027		Yes	2.01		Yes	0.0723		Yes	0.0953		Yes	25.3	J	Yes	C50
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	Yes	0.00336	EMPC-J	Yes	C44			0.0228		Yes	3.35		Yes	0.038		Yes	0.0427		Yes	24.5	J	Yes	C50
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	Yes	0.0117		Yes	C44			0.0596		Yes	3.9		Yes	0.11		Yes	0.156		Yes	28.8	J	Yes	C50
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	Yes	0.0175		Yes	C44			0.0372		Yes	6.29		Yes	0.169		Yes	0.0403		Yes	40	J	Yes	C50
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	Yes	0.0163		Yes	C44			0.154		Yes	2.38		Yes	0.114		Yes	0.138		Yes	20.6	J	Yes	C50
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	Yes	0.0357		Yes	C44			0.0607		Yes	4.3		Yes	0.382		Yes	0.191		Yes	56.4	J	Yes	C50
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	Yes	0.0104	U	No	C44			0.00881	U	No	0.437		Yes	0.0454		Yes	0.019		Yes	5.21	J	Yes	C50
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	Yes	0.0019		Yes	C44			0.00207	EMPC-J	Yes	0.0718		Yes	0.00921		Yes	0.000945	U	No	2.08		Yes	C50
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	Yes	0.0105		Yes	C44			0.000778	U	No	1.5		Yes	0.0756		Yes	0.000768	U	No	17.1	J	Yes	C50
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	Yes	0.0012	U	No	C44			0.038		Yes	2.08		Yes	0.0767		Yes	0.0386		Yes	43	J	Yes	C50
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	Yes	0.0149		Yes	C44			0.0242		Yes	3.03		Yes	0.124		Yes	0.0927		Yes	48.2	J	Yes	C50
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	Yes	0.0489		Yes	C44			0.129		Yes	4.85		Yes	0.236		Yes	0.277		Yes	31.2	J	Yes	C50
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	Yes	0.022		Yes	C44			0.0278		Yes	5.02		Yes	0.217		Yes	0.246		Yes	57.1	J	Yes	C50
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	Yes	0.0269		Yes	C44			0.0225		Yes	4.66		Yes	0.217	J	Yes	0.201		Yes	44.9	J	Yes	C50
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	Yes	0.0393		Yes	C44			0.0843		Yes	6.45	J	Yes	0.38		Yes	0.242		Yes	51.3	J	Yes	C50
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	Yes	0.0139		Yes	C44			0.00071	U	No	2.1		Yes	0.128		Yes	0.0648		Yes	30.5	J	Yes	C50
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	Yes	0.02		Yes	C44			0.0125		Yes	2.23		Yes	0.111		Yes	0.0765		Yes	25.3	J	Yes	C50
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	Yes	0.00971	EMPC-J	Yes	C44			0.0108		Yes	4.05		Yes	0.0807		Yes	0.0527		Yes	28.3	J	Yes	C50
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	Yes	0.0244		Yes	C44			0.0692		Yes	5.03		Yes	0.229		Yes	0.156		Yes	33.8	J	Yes	C50
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	Yes	0.0223		Yes	C44			0.0339		Yes	6.39		Yes	0.199		Yes	0.0539		Yes	36.8	J	Yes	C50
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	Yes	0.165		Yes	C44			0.681		Yes	4.82		Yes	0.773		Yes	0.58		Yes	9.19	J	Yes	C50
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	Yes	0.266		Yes	C44			0.893		Yes	3.2		Yes	0.0652		Yes	3.66		Yes	C50			
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	Yes	0.0556		Yes	C44			0.1		Yes	0.698		Yes	0.0128		Yes	0.0115		Yes	0.708		Yes	C50
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	Yes	0.0387		Yes	C44			0.0827		Yes	0.516		Yes	0.0134		Yes	0.00803		Yes	0.491		Yes	C50
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	Yes	0.16		Yes	C44			0.712		Yes	2.28		Yes	0.0582		Yes	0.0521		Yes	3.35		Yes	C50
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	Yes	0.00989		Yes	C44			0.0105		Yes	0.168		Yes	0.00761		Yes	0.00213		Yes	0.196		Yes	C50
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	Yes	0.0189		Yes	C44			0.0275		Yes	0.205		Yes	0.00653		Yes	0.00349		Yes	0.206		Yes	C50
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes	0.0165		Yes	C44			1.18		Yes	9.45	J	Yes	0.113		Yes	0.178		Yes	17.6	J	Yes	C50
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	Yes	0.166		Yes	C44			0.546		Yes	2.62		Yes	0.0571		Yes	0.0482		Yes	2.54		Yes	C50
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes	0.812		Yes	C44			4.39	J	Yes	16.2	J	Yes	0.206		Yes	0.129		Yes	18.8	J	Yes	C50
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes	0.18		Yes	C44			0.841		Yes	4.03		Yes	0.0837		Yes	0.0528		Yes	5.13	J	Yes	C50
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes	0.014		Yes	C44			0.936		Yes	5.5		Yes	0.0797		Yes	0.158		Yes	8.76	J	Yes	C50
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	Yes	0.0918		Yes	C44			0.326		Yes	3.82		Yes	0.0387		Yes	0.0241		Yes	6.84	J	Yes	C50
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes	0.408		Yes	C44			21.7	J	Yes	83.6	J	Yes	4.41		Yes	2.31		Yes	167	J	Yes	C50
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes	0.914		Yes	C44			7.83	J	Yes	30.7	J	Yes	3.22		Yes	3.47		Yes	62.1	J	Yes	C50
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes	0.0705		Yes	C44			5.68	J	Yes	40.9	J	Yes	0.699		Yes	0.456		Yes	71.1	J	Yes	C50
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	Yes	0.0706		Yes	C44			5.06	J	Yes	38.4	J	Yes	0.594		Yes	0.335		Yes	76.3	J	Yes	C50
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes	0.0651		Yes	C44			6.78	J	Yes	51.5	J	Yes	0.598		Yes	0.246		Yes	97	J	Yes	C50
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes	0.042		Yes	C44			3.33		Yes	17.5	J	Yes	0.307		Yes	0.241		Yes	30.6	J	Yes	C50
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes	0.115		Yes	C44			9.76	J	Yes	34.9	J	Yes	1.07		Yes	0.54		Yes	68.8	J	Yes	C50
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes	0.371		Yes	C44			11	J	Yes	45.3	J	Yes	3.06		Yes	1.79		Yes	82.3	J	Yes	C50
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes	0.334		Yes	C44			3.3		Yes	12.3	J	Yes	1.06		Yes	1.15		Yes	25	J	Yes	C50
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes	0.289		Yes	C44			2.79	J	Yes	10.2	J	Yes	0.791		Yes	1.02		Yes	17.6	J	Yes	C50
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes	0.0195		Yes	C44			1.76		Yes	11.6	J	Yes	0.183		Yes	0.0914		Yes	19.6	J	Yes	C50
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes	0.0311		Yes	C44			4.47	J	Yes	27.1	J	Yes	0.33		Yes	0.253		Yes	47.6	J	Yes	C50
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes	0.0187		Yes	C44			2.39		Yes	14.3	J	Yes	0.159		Yes	0.069		Yes	33.2	J	Yes	C50
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes	0.0111		Yes	C44			1.95		Yes	12.3	J	Yes	0.102		Yes	0.0439		Yes	25.9	J	Yes	C50
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes	0.421		Yes	C44			8.13	J	Yes	30.3	J	Yes	2.14		Yes	1.27		Yes	61	J	Yes	C50
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes	1.35		Yes	C44			11.3	J	Yes	50.5	J	Yes	5.68		Yes	6.67	J	Yes	81.1	J	Yes	C50
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	Yes	0.683	J	Yes	C44			11.6	J	Yes	29.9	J	Yes	1.9	J	Yes	2.17		Yes	61.5	J	Yes	C50
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes	0.964		Yes	C44			18.9	J	Yes	63.2	J	Yes	4.65		Yes	5.15	J	Yes	132	J	Yes	C50
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes	0.67		Yes	C44			6.31	J	Yes	16.1	J	Yes	1.8		Yes	1.96		Yes	37.3	J	Yes	C50
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes	0.983		Yes	C44			16	J	Yes	54.4	J	Yes	4.47		Yes	5.87	J	Yes	111	J	Yes	C50
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes	0.305		Yes	C44			17.5	J	Yes	66.6	J	Yes	3.24		Yes	1.69		Yes	133	J	Yes	C50
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes	0.734		Yes	C44			6.42	J	Yes	25	J	Yes	2.55		Yes	2.75		Yes	50.6	J	Yes	C50
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes	0.0581		Yes	C44			5.3	J	Yes	36.6	J	Yes	0.583		Yes	0.392		Yes	63.7	J	Yes	C50
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes	0.0545		Yes	C44			4.23	J	Yes	30.9	J	Yes	0.459		Yes	0.253		Yes	62.9	J	Yes	C50
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes	0.0476		Yes	C44			5.21	J	Yes	38.8	J	Yes	0.437		Yes	0.18		Yes	73.9	J	Yes	C50
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes	0.195		Yes	C44			3.06		Yes	26.7	J	Yes	0.357		Yes	0.183		Yes	42.6	J	Yes	C50
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes	0.0386		Yes	C44			1.13		Yes	12.6	J	Yes	0.0709		Yes	0.104		Yes	8.56	J	Yes	C50
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	Yes	0.123		Yes	C44			2.19		Yes	13.5	J	Yes	0.242		Yes	0.299		Yes	16.4	J	Yes	C50
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes	0.115		Yes	C44			1.8		Yes	16.9	J	Yes	0.273		Yes	0.492		Yes	20.6	J	Yes	C50
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	Yes	0.0529		Yes	C44			0.578		Yes	5.66		Yes	0.0844		Yes	0.0481		Yes	8.53	J	Yes	C50
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	Yes	0.0277		Yes	C44			0.282		Yes	4.35		Yes	0.0395		Yes	0.0784		Yes	2.41		Yes	C50
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	Yes	0.0613		Yes	C44			0.841		Yes	6.55		Yes	0.117		Yes	0.129		Yes	6.74	J	Yes	C50

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-53		PCB-54			PCB-55			PCB-56			PCB-57			PCB-58			PCB-59			PCB-60		
					µg/kg		µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01			0.00826		Yes	0.0144	U	No	0.173		Yes	0.0721		Yes	0.137		Yes	4.89		Yes	5.2	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02			0.0318		Yes	0.0122	U	No	0.203		Yes	0.0448		Yes	0.0117	U	No	3.68		Yes	2.95		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03			0.019		Yes	0.0136	U	No	0.0992		Yes	0.0603		Yes	0.151		Yes	4.91		Yes	3.62		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04			0.0182		Yes	0.0262	U	No	0.0659		Yes	0.0776		Yes	0.118		Yes	4.03		Yes	3.91	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008			0.037		Yes	0.0194	U	No	0.188		Yes	0.106		Yes	0.135		Yes	4.86		Yes	4.34	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05			0.00615		Yes	0.00663	U	No	0.0315		Yes	0.0312		Yes	0.00635	U	No	1.91		Yes	2.12		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002			0.00646		Yes	0.00834	U	No	0.0533		Yes	0.0319		Yes	0.00799	U	No	1.65		Yes	2.46		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006			0.00567		Yes	0.0107	U	No	0.0544		Yes	0.0344		Yes	0.0822		Yes	2.53		Yes	3.06		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007			0.0111		Yes	0.0114	U	No	0.114		Yes	0.06		Yes	0.0108	U	No	2.59		Yes	4.82	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026			0.00757		Yes	0.00725	U	No	0.052		Yes	0.169		Yes	0.0924		Yes	2.23		Yes	6.96	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01			0.00521		Yes	0.0436		Yes	0.0761		Yes	0.0351		Yes	0.209		Yes	2.24		Yes	3.36		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02			0.0335		Yes	0.0215		Yes	0.117		Yes	0.0301		Yes	0.27		Yes	2.74		Yes	2.81		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03			0.0249		Yes	0.0829		Yes	0.119		Yes	0.261		Yes	0.104		Yes	4.92		Yes	4.56	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04			0.0216		Yes	0.0472		Yes	0.0671		Yes	0.0821		Yes	0.266		Yes	3.56		Yes	4.3	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008			0.0333		Yes	0.0413		Yes	0.173		Yes	0.0609		Yes	0.346		Yes	3.58		Yes	4.2	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05			0.00694		Yes	0.0167		Yes	0.0342		Yes	0.0554		Yes	0.194		Yes	2		Yes	2.75		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002			0.00789	EMPC-J	Yes	0.0257		Yes	0.0641		Yes	0.0414		Yes	0.163		Yes	1.66		Yes	3.28		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006			0.0071		Yes	0.0234		Yes	0.0475		Yes	0.0408		Yes	0.277		Yes	2.41		Yes	3.4		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007			0.0126	EMPC-J	Yes	0.0584		Yes	0.13		Yes	0.0615		Yes	0.211		Yes	2.11		Yes	5.45	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026			0.0113		Yes	0.115		Yes	0.077		Yes	0.152		Yes	0.249		Yes	2.55		Yes	9.97	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011			0.0124		Yes	0.00831	U	No	0.362		Yes	0.031		Yes	0.0598		Yes	1.72		Yes	1.72		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019			0.0141		Yes	0.0161	U	No	0.0748		Yes	0.0701		Yes	0.0153	U	No	3.37		Yes	4.21	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001			0.00643	U	No	0.013	U	No	0.0209		Yes	0.0122	U	No	0.0121	U	No	0.598		Yes	0.992		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003			0.000709	U	No	0.00247	U	No	0.00458		Yes	0.00241	U	No	0.00234	U	No	0.121		Yes	0.0714		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005			0.00291		Yes	0.00615	U	No	0.0362		Yes	0.0191		Yes	0.00583	U	No	1.17		Yes	1.78		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022			0.00365		Yes	0.0116	U	No	0.0607		Yes	0.0499		Yes	0.0975		Yes	2.69		Yes	4.87	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01			0.00687		Yes	0.0238		Yes	0.129		Yes	0.0552		Yes	0.17		Yes	3.68		Yes	4.36	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02			0.0326		Yes	0.0135		Yes	0.162		Yes	0.0377		Yes	0.133		Yes	3.23		Yes	2.88		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03			0.0218		Yes	0.0428		Yes	0.109		Yes	0.155		Yes	0.129		Yes	4.91		Yes	4.06	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04			0.0197		Yes	0.0284		Yes	0.0664		Yes	0.0796		Yes	0.184		Yes	3.82		Yes	4.08	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008			0.0351		Yes	0.0255		Yes	0.18		Yes	0.0834		Yes	0.241		Yes	4.22		Yes	4.27	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05			0.00647		Yes	0.00868		Yes	0.0326		Yes	0.0409		Yes	0.0797		Yes	1.95		Yes	2.37		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002			0.0071	EMPC-J	Yes	0.0139		Yes	0.0582		Yes	0.0362		Yes	0.0755		Yes	1.65		Yes	2.83		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006			0.00633		Yes	0.0136		Yes	0.0512		Yes	0.0373		Yes	0.172		Yes	2.47		Yes	3.22		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007			0.0117	EMPC-J	Yes	0.0275		Yes	0.121		Yes	0.0606		Yes	0.0903		Yes	2.39		Yes	5.08	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026			0.00939		Yes	0.058		Yes	0.0642		Yes	0.161		Yes	0.169		Yes	2.39		Yes	8.43	J	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01			0.0353		Yes	0.0159		Yes	0.22		Yes	0.00923		Yes	0.00299	U	No	0.674		Yes	0.983		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013			0.0327		Yes	0.0257		Yes	1.97		Yes	0.0309		Yes	0.0202		Yes	0.65		Yes	1.05		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044			0.00753		Yes	0.00567		Yes	0.376		Yes	0.00797		Yes	0.006		Yes	0.17		Yes	0.289		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061			0.00763		Yes	0.00322		Yes	0.252		Yes	0.00656		Yes	0.00506		Yes	0.112		Yes	0.214		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007			0.0298		Yes	0.017		Yes	1.14		Yes	0.0214		Yes	0.0126		Yes	0.508		Yes	0.545		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058			0.00154		Yes	0.00235		Yes	0.0278		Yes	0.00255		Yes	0.00199		Yes	0.0421		Yes	0.101		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066			0.00188	EMPC-J	Yes	0.00108		Yes	0.0822		Yes	0.00203		Yes	0.0014		Yes	0.0393		Yes	0.0865		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035			0.00539	EMPC-J	Yes	0.0705		Yes	0.852		Yes	0.0696		Yes	0.066		Yes	1.52		Yes	3.09		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055			0.0364		Yes	0.0255		Yes	1.49		Yes	0.032		Yes	0.022		Yes	0.627		Yes	1.11		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057			0.15		Yes	0.138		Yes	8.61	J	Yes	0.15		Yes	0.0996		Yes	3.41		Yes	3.08		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004			0.0548		Yes	0.053		Yes	2.59		Yes	0.0499		Yes	0.0226		Yes	0.836		Yes	1.72		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006			0.00572		Yes	0.0277		Yes	1.28		Yes	0.0431		Yes	0.0284		Yes	0.98		Yes	2.48		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052			0.0229		Yes	0.0262		Yes	1.23		Yes	0.0365		Yes	0.0224		Yes	0.758		Yes	1.31		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008			0.257		Yes	1.03		Yes	33.1	J	Yes	0.695		Yes	0.362		Yes	12.1	J	Yes	16.2	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011			0.427		Yes	0.221		Yes	10.1	J	Yes	0.209		Yes	0.12		Yes	5.12		Yes	5.2	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018			0.127		Yes	0.33		Yes	13	J	Yes	0.269		Yes	0.147		Yes	5.01		Yes	7.65	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028			0.046		Yes	0.337		Yes	11.1	J	Yes	0.29		Yes	0.135		Yes	4.45		Yes	9.52	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029			0.0403		Yes	0.376		Yes	14.5	J	Yes	0.302		Yes	0.149		Yes	6.2		Yes	11.3	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002			0.0559		Yes	0.104		Yes	6.24	J	Yes	0.129		Yes	0.00361	U	No	2.49		Yes	2.56		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008			0.115		Yes	0.266		Yes	12.9	J	Yes	0.239		Yes	0.124		Yes	5.75		Yes	5.01	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009			0.384		Yes	0.331		Yes	16.3	J	Yes	0.277		Yes	0.205		Yes	7.43		Yes	7.81	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011			0.186		Yes	0.08		Yes	4.3	J	Yes	0.0788		Yes	0.0417		Yes	2.21		Yes	1.87		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012			0.12		Yes	0.0512	J	Yes	3.55		Yes	0.073		Yes	0.0467		Yes	1.6	J	Yes	1.68		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014			0.0191		Yes	0.0586		Yes	3.42		Yes	0.0706		Yes	0.0491		Yes	1.42		Yes	2.01		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018			0.0785		Yes	0.153		Yes	8.92	J	Yes	0.162		Yes	0.0792		Yes	3.74		Yes	4.81	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028			0.0199		Yes	0.0943		Yes	5.2	J	Yes	0.0861		Yes	0.051		Yes	2.13		Yes	3.57		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029			0.014		Yes	0.0684		Yes	4.13	J	Yes	0.0881		Yes	0.0456		Yes	1.77		Yes	2.7		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030			0.146		Yes	0.192		Yes	11.6	J	Yes	0.216		Yes	0.117		Yes	5.04		Yes	8.55	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001			0.817		Yes	0.362		Yes	14.3	J	Yes	0.329		Yes	0.161		Yes	7.03		Yes	8.3	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003			0.355		Yes	0.34	J	Yes	14.5	J	Yes	0.255	J	Yes	0.139	J	Yes	6.01	J	Yes	5.57	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005			0.6		Yes	0.83		Yes	20.2	J	Yes	0.397		Yes	0.235		Yes	11.3		Yes	12.2	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007			0.553		Yes	0.258		Yes	9.38	J	Yes	0.13		Yes	0.0532		Yes	3.43		Yes	3.61		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016			0.646		Yes	0.379		Yes	16.6	J	Yes	0.319		Yes	0.214		Yes	9.78		Yes	10.7	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008			0.207		Yes	0.763		Yes	26	J	Yes	0.535		Yes	0.279		Yes	9.88	J	Yes	12.3	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011			0.352		Yes	0.177		Yes	8.3	J	Yes	0.169		Yes	0.0956		Yes	4.21		Yes	4.16	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018			0.112		Yes	0.274		Yes	11.7	J	Yes	0.235		Yes	0.126		Yes	4.61		Yes	6.76	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028			0.0379		Yes	0.262		Yes	9.27	J	Yes	0.227		Yes	0.109		Yes	3.73		Yes	7.68	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029			0.0318		Yes	0.276		Yes	11.1	J	Yes	0.232		Yes	0.115		Yes	4.76		Yes	8.51	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004			0.0693		Yes	0.254		Yes	5.94	J	Yes	0.27		Yes	0.188		Yes	4.16		Yes	12.4	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001			0.0265	J	Yes	0.206		Yes	1.42		Yes	0.0209	U	No	0.0761		Yes	2.45		Yes	8.22	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002			0.0609		Yes	0.176		Yes	2.2		Yes	0.0254		Yes	0.0413		Yes	2.98		Yes	9.29	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003			0.0417	EMPC-J	Yes	0.144		Yes	2.14		Yes	0.0367		Yes	0.0697		Yes	2.45		Yes	7.87	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004			0.0111		Yes	0.0216		Yes	1.02		Yes	0.0551		Yes	0.0422		Yes	0.78		Yes	2.1		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001			0.00522	EMPC-J	Yes	0.024		Yes	0.291		Yes	0.00528		Yes	0.0241		Yes	0.624		Yes	1.72		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002			0.0142		Yes	0.0216		Yes	0.71		Yes	0.0113		Yes	0.0274		Yes	1.2		Yes	3.03		Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-61			PCB-62			PCB-63			PCB-64			PCB-65			PCB-66			PCB-67			PCB-68	
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg	
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	20.7	J	Yes	C59			1.6		Yes	29.6	J	Yes	C44			26.2	J	Yes	0.143		Yes	0.266	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	11.8		Yes	C59			0.896		Yes	18.7	J	Yes	C44			18.6	J	Yes	0.0113	U	No	0.185	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	14.8	J	Yes	C59			1.37		Yes	25.6	J	Yes	C44			21.7	J	Yes	0.181		Yes	0.359	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	16.5	J	Yes	C59			1.29		Yes	21.4	J	Yes	C44			22.7	J	Yes	0.218		Yes	0.276	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	20.3	J	Yes	C59			1.61		Yes	24.4	J	Yes	C44			25.3	J	Yes	0.245		Yes	0.373	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	6.14		Yes	C59			0.511		Yes	11.6	J	Yes	C44			8.63	J	Yes	0.00616	U	No	0.0917	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	7.38		Yes	C59			0.627		Yes	10.5	J	Yes	C44			11.8	J	Yes	0.00775	U	No	0.117	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	9.79		Yes	C59			0.851		Yes	16.2	J	Yes	C44			15.9	J	Yes	0.0567		Yes	0.00943	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	15.1		Yes	C59			1.2		Yes	15.4	J	Yes	C44			20.2	J	Yes	0.0103	U	No	0.2	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	18.9	J	Yes	C59			1.37		Yes	8.59	J	Yes	C44			22.9	J	Yes	0.222		Yes	0.202	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	11.8		Yes	C59			0.908		Yes	0.000443	U	No	C44			14.6	J	Yes	0.0647		Yes	0.144	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	10.8		Yes	C59			0.765		Yes	0.000924	U	No	C44			15.9	J	Yes	0.0882		Yes	0.152	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	18.5	J	Yes	C59			1.56		Yes	0.000992	U	No	C44			24.3	J	Yes	0.161		Yes	0.421	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	18	J	Yes	C59			1.29		Yes	0.000949	U	No	C44			22.7	J	Yes	0.178		Yes	0.269	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	19.5	J	Yes	C59			1.34		Yes	12.7	J	Yes	C44			24.2	J	Yes	0.16		Yes	0.286	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	8.45		Yes	C59			0.611		Yes	0.00108	U	No	C44			9.7	J	Yes	0.049		Yes	0.108	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	9.97		Yes	C59			0.732		Yes	0.000762	U	No	C44			13.6	J	Yes	0.0433		Yes	0.131	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	10.4		Yes	C59			0.91		Yes	0.000981	U	No	C44			16.2	J	Yes	0.0525		Yes	0.145	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	17	J	Yes	C59			1.07		Yes	0.000818	U	No	C44			22.4	J	Yes	0.0769		Yes	0.161	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	26.6	J	Yes	C59			1.77		Yes	8.61	J	Yes	C44			32.2	J	Yes	0.285		Yes	0.257	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	7.28		Yes	C59			0.551		Yes	11.1	J	Yes	C44			10.1	J	Yes	0.107		Yes	0.103	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	13.4		Yes	C59			1.06		Yes	24.3	J	Yes	C44			16.5	J	Yes	0.0146	U	No	0.216	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	2.53		Yes	C59			0.252		Yes	5.93	J	Yes	C44			4.46	J	Yes	0.0118	U	No	0.0269	EMPC-J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.168		Yes	C59			0.0147		Yes	0.76		Yes	C44			0.397		Yes	0.00223	U	No	0.00219	U
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	5.06		Yes	C59			0.459		Yes	7.52	J	Yes	C44			7.3	J	Yes	0.00556	U	No	0.0696	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	13.4		Yes	C59			1.21		Yes	18.5	J	Yes	C44			18.9	J	Yes	0.0523		Yes	0.205	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	16.6	J	Yes	C59			1.28		Yes	16.1	J	Yes	C44			20.9	J	Yes	0.107		Yes	0.21	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	11.3		Yes	C59			0.833		Yes	9.72	J	Yes	C44			17.3	J	Yes	0.0453		Yes	0.169	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	16.6	J	Yes	C59			1.46		Yes	13.5	J	Yes	C44			22.9	J	Yes	0.172		Yes	0.388	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	17.2	J	Yes	C59			1.29		Yes	11.8	J	Yes	C44			22.7	J	Yes	0.2		Yes	0.273	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	19.9	J	Yes	C59			1.47		Yes	18.5	J	Yes	C44			24.7	J	Yes	0.202		Yes	0.329	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	7.07		Yes	C59			0.551		Yes	6.95	J	Yes	C44			9.06	J	Yes	0.0215		Yes	0.0982	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	8.55		Yes	C59			0.674		Yes	5.78	J	Yes	C44			12.6	J	Yes	0.0216		Yes	0.123	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	10.1		Yes	C59			0.878		Yes	8.76	J	Yes	C44			16	J	Yes	0.0548		Yes	0.0691	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	15.9	J	Yes	C59			1.15		Yes	9.04	J	Yes	C44			21.1	J	Yes	0.0348		Yes	0.184	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	22.7	J	Yes	C59			1.57		Yes	8.6	J	Yes	C44			27.4	J	Yes	0.253		Yes	0.229	
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	6.04		Yes	C59			0.276		Yes	2.93		Yes	C44			5.29	J	Yes	0.04		Yes	0.0789	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	4.23		Yes	C59			0.264		Yes	2.75		Yes	C44			5.54	J	Yes	0.0616		Yes	0.0463	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	1.1		Yes	C59			0.0794		Yes	0.775		Yes	C44			1.74		Yes	0.00844		Yes	0.0151	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.957		Yes	C59			0.0682		Yes	0.499		Yes	C44			1.4		Yes	0.00942		Yes	0.0164	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	3.11		Yes	C59			0.172		Yes	2.06		Yes	C44			3.67		Yes	0.0569		Yes	0.034	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.393		Yes	C59			0.0313		Yes	0.166		Yes	C44			0.574		Yes	0.00228		Yes	0.00649	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.245		Yes	C59			0.0173		Yes	0.195		Yes	C44			0.382		Yes	0.00222		Yes	0.00353	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	13.7		Yes	C59			1.14		Yes	7.66	J	Yes	C44			22.3	J	Yes	0.0772		Yes	0.277	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	5.24		Yes	C59			0.395		Yes	2.58		Yes	C44			7.69	J	Yes	0.0404		Yes	0.0954	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	21.5	J	Yes	C59			1.36		Yes	13.8	J	Yes	C44			28.8	J	Yes	0.277		Yes	0.249	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	6.64		Yes	C59			0.453		Yes	3.56		Yes	C44			8.21	J	Yes	0.0943		Yes	0.1	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	8.67		Yes	C59			0.62		Yes	4.62	J	Yes	C44			12.1	J	Yes	0.0557		Yes	0.12	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	5.67		Yes	C59			0.411		Yes	3.22		Yes	C44			7.17	J	Yes	0.0544		Yes	0.0807	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	161	J	Yes	C59			5.78	J	Yes	43.7	J	Yes	C44			96.5	J	Yes	2.59		Yes	1.81	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	46.2	J	Yes	C59			1.76		Yes	19	J	Yes	C44			37.1	J	Yes	0.887		Yes	0.535	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	66.9	J	Yes	C59			2.57		Yes	21.6	J	Yes	C44			48	J	Yes	0.951		Yes	0.824	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	62.6	J	Yes	C59			2.46		Yes	23	J	Yes	C44			46.6	J	Yes	0.76		Yes	0.596	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	74.5	J	Yes	C59			2.86		Yes	30.2	J	Yes	C44			59.3	J	Yes	0.859		Yes	0.699	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	30.5	J	Yes	C59			1.16		Yes	10.8	J	Yes	C44			21.5	J	Yes	0.555		Yes	0.321	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	61.8	J	Yes	C59			2.19		Yes	22	J	Yes	C44			40.3	J	Yes	1.07		Yes	0.693	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	81.8	J	Yes	C59			3.14		Yes	28.6	J	Yes	C44			55.9	J	Yes	1.37		Yes	0.881	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	20.1	J	Yes	C59			0.769		Yes	8.33	J	Yes	C44			15.7	J	Yes	0.403		Yes	0.237	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	16.5	J	Yes	C59			0.614	J	Yes	6.16	J	Yes	C44			12.6	J	Yes	0.266	J	Yes	0.168	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	18.6	J	Yes	C59			0.786		Yes	6.8	J	Yes	C44			14.5	J	Yes	0.249		Yes	0.242	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	48.5	J	Yes	C59			1.85		Yes	15.2	J	Yes	C44			32.5	J	Yes	0.726		Yes	0.651	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	29.2	J	Yes	C59			1.08		Yes	10.1	J	Yes	C44			20.7	J	Yes	0.353		Yes	0.291	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	22.3	J	Yes	C59			0.857		Yes	8.3	J	Yes	C44			16.7	J	Yes	0.282		Yes	0.224	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	60.5	J	Yes	C59			2.17		Yes	21	J	Yes	C44			42.8	J	Yes	0.88		Yes	0.444	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	71	J	Yes	C59			3.17		Yes	26.8	J	Yes	C44			59.5	J	Yes	1.14		Yes	0.91	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	63.7	J	Yes	C59			2.19	J	Yes	20.8	J	Yes	C44			40.1	J	Yes	1.29	J	Yes	0.542	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	111	J	Yes	C59			4.63	J	Yes	40.5	J	Yes	C44			72.7	J	Yes	1.65		Yes	1.42	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	38.6	J	Yes	C59			1.25		Yes	11.4	J	Yes	C44			22.2	J	Yes	0.937		Yes	0.364	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	88	J	Yes	C59			3.94	J	Yes	32.5	J	Yes	C44			60.2	J	Yes	1.43		Yes	1.18	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	126	J	Yes	C59			4.52	J	Yes	36.1	J	Yes	C44			76.8	J	Yes	2.06		Yes	1.42	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	38.1	J	Yes	C59			1.45		Yes	15.7	J	Yes	C44			30.4	J	Yes	0.736		Yes	0.442	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	61.1	J	Yes	C59			2.34		Yes	19.6	J	Yes	C44			43.1	J	Yes	0.88		Yes	0.77	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	52.2	J	Yes	C59			2.03		Yes	19	J	Yes	C44			38.6	J	Yes	0.634		Yes	0.501	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	57.5	J	Yes	C59			2.21		Yes	23.1	J	Yes	C44			45.5	J	Yes	0.671		Yes	0.545	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	50.9	J	Yes	C59			3.82		Yes	20.2	J	Yes	C44			77.5	J	Yes	0.277		Yes	0.642	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	32.6	J	Yes	C59			2.03		Yes	12.1	J	Yes	C44			55	J	Yes	0.129		Yes	0.421	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	34.8	J	Yes	C59			2.1		Yes	12.7	J	Yes	C44			54.6	J	Yes	0.166		Yes	0.426	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	24.9	J	Yes	C59			1.71		Yes	13	J	Yes	C44			38.3	J	Yes	0.168		Yes	0.316	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	8.47		Yes	C59			0.631		Yes	4.02	J	Yes	C44			13.1	J	Yes	0.0492		Yes	0.112	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	6.79		Yes	C59			0.437		Yes	3.33		Yes	C44			12.3	J	Yes	0.0305		Yes	0.0856	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	11.3		Yes	C59			0.715		Yes	6.08	J	Yes	C44			18.7	J	Yes	0.0518		Yes	0.141	

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-69			PCB-70			PCB-71			PCB-72			PCB-73			PCB-74			PCB-75			
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	Yes	C49			C61			C40			0.422		Yes	0.000897	U	No	C61			C59			C61
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	Yes	C49			C61			C40			0.215		Yes	0.000673	U	No	C61			C59			C61
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	Yes	C49			C61			C40			0.495		Yes	0.0009	U	No	C61			C59			C61
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	Yes	C49			C61			C40			0.39		Yes	0.0589	J	Yes	C61			C59			C61
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	Yes	C49			C61			C40			0.466		Yes	0.000919	U	No	C61			C59			C61
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	Yes	C49			C61			C40			0.132		Yes	0.00101	U	No	C61			C59			C61
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	Yes	C49			C61			C40			0.192		Yes	0.000922	U	No	C61			C59			C61
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	No	C49			C61			C40			0.0102	U	No	0.000937	U	No	C61			C59			C61
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	Yes	C49			C61			C40			0.277		Yes	0.000652	U	No	C61			C59			C61
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	Yes	C49			C61			C40			0.294		Yes	0.00068	U	No	C61			C59			C61
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	Yes	C49			C61			C40			0.138		Yes	0.014		Yes	C61			C59			C61
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	Yes	C49			C61			C40			0.0795		Yes	0.0388		Yes	C61			C59			C61
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	Yes	C49			C61			C40			0.232		Yes	0.0403		Yes	C61			C59			C61
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	Yes	C49			C61			C40			0.168		Yes	0.0304		Yes	C61			C59			C61
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	Yes	C49			C61			C40			0.146		Yes	0.00151	U	No	C61			C59			C61
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	Yes	C49			C61			C40			0.0721		Yes	0.00116	U	No	C61			C59			C61
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	Yes	C49			C61			C40			0.0805		Yes	0.000819	U	No	C61			C59			C61
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	Yes	C49			C61			C40			0.134		Yes	0.013		Yes	C61			C59			C61
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	Yes	C49			C61			C40			0.1		Yes	0.000856	U	No	C61			C59			C61
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	Yes	C49			C61			C40			0.195		Yes	0.0381		Yes	C61			C59			C61
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	Yes	C49			C61			C40			0.136		Yes	0.00104	U	No	C61			C59			C61
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	Yes	C49			C61			C40			0.336		Yes	0.00182	U	No	C61			C59			C61
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	Yes	C49			C61			C40			0.0529		Yes	0.00666	U	No	C61			C59			C61
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	No	C49			C61			C40			0.00275		Yes	0.00077	U	No	C61			C59			C61
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	Yes	C49			C61			C40			0.0963		Yes	0.000625	U	No	C61			C59			C61
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	Yes	C49			C61			C40			0.333		Yes	0.000795	U	No	C61			C59			C61
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	Yes	C49			C61			C40			0.292		Yes	0.00663		Yes	C61			C59			C61
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	Yes	C49			C61			C40			0.15		Yes	0.0188		Yes	C61			C59			C61
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	Yes	C49			C61			C40			0.371		Yes	0.0193		Yes	C61			C59			C61
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	Yes	C49			C61			C40			0.291		Yes	0.0461	J	Yes	C61			C59			C61
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	Yes	C49			C61			C40			0.306		Yes	0.000608	U	No	C61			C59			C61
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	Yes	C49			C61			C40			0.108		Yes	0.000535	U	No	C61			C59			C61
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	Yes	C49			C61			C40			0.142		Yes	0.000438	U	No	C61			C59			C61
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	Yes	C49			C61			C40			0.0643		Yes	0.00622		Yes	C61			C59			C61
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	Yes	C49			C61			C40			0.204		Yes	0.000368	U	No	C61			C59			C61
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	Yes	C49			C61			C40			0.246		Yes	0.0188		Yes	C61			C59			C61
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	Yes	C49			C61			C40			0.085		Yes	0.0438		Yes	C61			C59			C61
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	Yes	C49			C61			C40			0.0441		Yes	0.0223		Yes	C61			C59			C61
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	Yes	C49			C61			C40			0.0141		Yes	0.0066		Yes	C61			C59			C61
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	Yes	C49			C61			C40			0.0131		Yes	0.00591		Yes	C61			C59			C61
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	Yes	C49			C61			C40			0.0251		Yes	0.0136		Yes	C61			C59			C61
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	Yes	C49			C61			C40			0.00752		Yes	0.00116		Yes	C61			C59			C61
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	Yes	C49			C61			C40			0.00419		Yes	0.002		Yes	C61			C59			C61
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes	C49			C61			C40			0.174		Yes	0.049		Yes	C61			C59			C61
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	Yes	C49			C61			C40			0.059		Yes	0.0373		Yes	C61			C59			C61
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes	C49			C61			C40			0.245		Yes	0.132		Yes	C61			C59			C61
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes	C49			C61			C40			0.0624		Yes	0.0458		Yes	C61			C59			C61
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes	C49			C61			C40			0.0771		Yes	0.0221		Yes	C61			C59			C61
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	Yes	C49			C61			C40			0.0613		Yes	0.0322		Yes	C61			C59			C61
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes	C49			C61			C40			0.965		Yes	8.1	J	Yes	C61			C59			C61
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes	C49			C61			C40			0.316		Yes	1.07		Yes	C61			C59			C61
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes	C49			C61			C40			0.45		Yes	0.00665	U	No	C61			C59			C61
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	Yes	C49			C61			C40			0.504		Yes	0.809		Yes	C61			C59			C61
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes	C49			C61			C40			0.7		Yes	0.475		Yes	C61			C59			C61
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes	C49			C61			C40			0.279		Yes	0.137		Yes	C61			C59			C61
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes	C49			C61			C40			0.446		Yes	0.307		Yes	C61			C59			C61
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes	C49			C61			C40			0.672		Yes	0.303		Yes	C61			C59			C61
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes	C49			C61			C40			0.133		Yes	0.12		Yes	C61			C59			C61
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes	C49			C61			C40			0.181		Yes	0.0789	J	Yes	C61			C59			C61
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes	C49			C61			C40			0.2		Yes	0.0693		Yes	C61			C59			C61
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes	C49			C61			C40			0.327		Yes	0.201		Yes	C61			C59			C61
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes	C49			C61			C40			0.155		Yes	0.0717		Yes	C61			C59			C61
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes	C49			C61			C40			0.142		Yes	0.073		Yes	C61			C59			C61
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes	C49			C61			C40			0.378		Yes	0.135		Yes	C61			C59			C61
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes	C49			C61			C40			0.736		Yes	0.642		Yes	C61			C59			C61
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	Yes	C49			C61			C40			0.3		Yes	0.304	J	Yes	C61			C59			C61
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes	C49			C61			C40			0.726		Yes	0.772		Yes	C61			C59			C61
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes	C49			C61			C40			0.138		Yes	0.19		Yes	C61			C59			C61
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes	C49			C61			C40			0.627		Yes	0.758		Yes	C61			C59			C61
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes	C49			C61			C40			0.783		Yes	5.37	J	Yes	C61			C59			C61
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes	C49			C61			C40			0.259		Yes	0.775		Yes	C61			C59			C61
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes	C49			C61			C40			0.411		Yes	0.0654		Yes	C61			C59			C61
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes	C49			C61			C40			0.396		Yes	0.58		Yes	C61			C59			C61
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes	C49			C61			C40			0.519		Yes	0.344		Yes	C61			C59			C61
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes	C49			C61			C40			0.372		Yes	0.137		Yes	C61			C59			C61
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes	C49			C61			C40			0.0463		Yes	0.0793		Yes	C61			C59			C61
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	Yes	C49			C61			C40			0.0356		Yes	0.108		Yes	C61			C59			C61
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes	C49			C61			C40			0.07		Yes	0.0895		Yes	C61			C59			C61
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	Yes	C49			C61			C40			0.0941		Yes	0.0175		Yes	C61			C59			C61
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	Yes	C49			C61			C40			0.0199		Yes	0.0214		Yes	C61			C59			C61
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	Yes	C49			C61			C40			0.026		Yes	0.0313		Yes	C61			C59			C61

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-76		PCB-77			PCB-78			PCB-79			PCB-80			PCB-81			PCB-82		
					µg/kg		µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01			0.0234		Yes	0.0149	U	No	0.114		Yes	0.0125	U	No	0.0151	U	No	1.72		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02			0.0408		Yes	0.0126	U	No	0.135		Yes	0.0105	U	No	0.0127	U	No	2.23		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03			0.0209		Yes	0.014	U	No	0.12		Yes	0.0117	U	No	0.0142	U	No	1.45		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04			0.0261	U	No	0.0271	U	No	0.142		Yes	0.0227	U	No	0.0275	U	No	1.66		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008			0.0214	U	No	0.0197	U	No	0.274		Yes	0.0167	U	No	0.0207	U	No	2.33		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05			0.00721	U	No	0.00685	U	No	0.0555		Yes	0.00574	U	No	0.00694	U	No	0.823		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002			0.0132		Yes	0.00861	U	No	0.111		Yes	0.00722	U	No	0.00873	U	No	0.886		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006			0.0111	U	No	0.011	U	No	0.235		Yes	0.00923	U	No	0.0112	U	No	1.3		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007			0.0247		Yes	0.0115	U	No	0.242		Yes	0.00977	U	No	0.0121	U	No	1.8		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026			0.0116		Yes	0.00735	U	No	0.105		Yes	0.00624	U	No	0.00775	U	No	0.643		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01			0.00785	U	No	0.00707	U	No	0.101		Yes	0.00571	U	No	0.00675	U	No	1.31		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02			0.00954	U	No	0.0103	U	No	0.203		Yes	0.00834	U	No	0.00987	U	No	2.23		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03			0.0123	U	No	0.0132	U	No	0.154		Yes	0.0107	U	No	0.0126	U	No	1.68		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04			0.0138	U	No	0.0139	U	No	0.215		Yes	0.49		Yes	0.0133	U	No	2.01		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008			0.0287		Yes	0.0205	U	No	0.261		Yes	0.0169	U	No	0.0207	U	No	2.34		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05			0.0139	U	No	0.0136	U	No	0.0997		Yes	0.0109	U	No	0.0129	U	No	1.14		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002			0.0122	U	No	0.0118	U	No	0.11		Yes	0.00952	U	No	0.0113	U	No	1.15		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006			0.0126	U	No	0.0142	U	No	0.233		Yes	0.0115	U	No	0.0136	U	No	1.48		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007			0.0154	U	No	0.0138	U	No	0.254		Yes	0.0114	U	No	0.0139	U	No	2.08		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026			0.0179		Yes	0.0102	U	No	0.116		Yes	0.00845	U	No	0.0103	U	No	0.776		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011			0.0955		Yes	0.00843	U	No	0.0614		Yes	0.00714	U	No	0.00887	U	No	0.532		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019			0.0365		Yes	0.0164	U	No	0.13		Yes	0.0139	U	No	0.0172	U	No	1.29		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001			0.0126	U	No	0.0143	U	No	0.0114	U	No	0.0112	U	No	0.0137	U	No	0.2		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003			0.0051		Yes	0.0025	U	No	0.00433		Yes	0.00212	U	No	0.00995	EMPC-J	Yes	0.0276		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005			0.0181		Yes	0.00624	U	No	0.058		Yes	0.00529	U	No	0.00657	U	No	0.901		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022			0.0257		Yes	0.0118	U	No	0.00962	U	No	0.00996	U	No	0.0124	U	No	0.972		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01			0.0145		Yes	0.00566	U	No	0.108		Yes	0.0047	U	No	0.00565	U	No	1.53		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02			0.0235		Yes	0.00575	U	No	0.168		Yes	0.00473	U	No	0.00567	U	No	2.23		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03			0.0139		Yes	0.00681	U	No	0.136		Yes	0.00561	U	No	0.00672	U	No	1.56		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04			0.0103	U	No	0.0106	U	No	0.175		Yes	0.226		Yes	0.0106	U	No	1.82		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008			0.0197		Yes	0.0101	U	No	0.267		Yes	0.0084	U	No	0.0104	U	No	2.34		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05			0.00495	U	No	0.00478	U	No	0.0732		Yes	0.0039	U	No	0.00466	U	No	0.95		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002			0.01		Yes	0.00502	U	No	0.111		Yes	0.00413	U	No	0.00494	U	No	1		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006			0.00589	U	No	0.00623	U	No	0.234		Yes	0.00514	U	No	0.00615	U	No	1.38		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007			0.0177		Yes	0.00622	U	No	0.247		Yes	0.00522	U	No	0.00642	U	No	1.92		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026			0.0147		Yes	0.00437	U	No	0.11		Yes	0.00366	U	No	0.0045	U	No	0.708		Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01			0.102		Yes	0.00331	U	No	0.0711		Yes	0.0027	U	No	0.0164		Yes	0.77		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013			0.0856		Yes	0.00245	U	No	0.0466		Yes	0.002	U	No	0.0191		Yes	0.608		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044			0.0179		Yes	0.00109	U	No	0.0177		Yes	0.000885	U	No	0.00552		Yes	0.21		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061			0.0169		Yes	0.00104	U	No	0.0138		Yes	0.000846	U	No	0.00417		Yes	0.171		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007			0.0786		Yes	0.00243	U	No	0.0409		Yes	0.00198	U	No	0.0114		Yes	0.431		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058			0.00525		Yes	0.000655	U	No	0.00524		Yes	0.000533	U	No	0.00232		Yes	0.0724		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066			0.00512		Yes	0.000454	U	No	0.00305		Yes	0.00037	U	No	0.00152		Yes	0.0604		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035			0.0663		Yes	0.0181	U	No	0.124		Yes	0.0146	U	No	0.0594		Yes	0.117		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055			0.0639		Yes	0.00438	U	No	0.0655		Yes	0.00353	U	No	0.0199		Yes	1.06		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057			0.313		Yes	0.0127	U	No	0.283		Yes	0.0102	U	No	0.0558		Yes	4.15	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004			0.243		Yes	0.00912	U	No	0.11		Yes	0.00735	U	No	0.031		Yes	1.4		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006			0.0984		Yes	0.015	U	No	0.146		Yes	0.0121	U	No	0.0463		Yes	1.39		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052			0.0954		Yes	0.00557	U	No	0.0806		Yes	0.00448	U	No	0.024		Yes	1.01		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008			3.11		Yes	0.0619	U	No	0.0518	U	No	0.793		Yes	0.062	U	No	12.7	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011			1.4		Yes	0.0137	U	No	0.39		Yes	0.0111	U	No	0.0719		Yes	5.13	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018			1.99		Yes	0.0399	U	No	0.533		Yes	0.0323	U	No	0.165		Yes	8.07	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028			1.57		Yes	0.0664	U	No	0.474		Yes	0.0538	U	No	0.203		Yes	8.05	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029			1.71		Yes	0.0688	U	No	0.702		Yes	0.0558	U	No	0.167		Yes	8.24	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002			0.688		Yes	0.00409	U	No	0.258		Yes	0.00326	U	No	0.0526		Yes	3.07		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008			1.42		Yes	0.00854	U	No	0.557		Yes	0.00696	U	No	0.129		Yes	5.63	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009			1.71		Yes	0.0151	U	No	0.548		Yes	0.0121	U	No	0.194		Yes	5.14	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011			0.657		Yes	0.006	U	No	0.211		Yes	0.00489	U	No	0.0448		Yes	2.17		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012			0.39		Yes	0.00384	U	No	0.198		Yes	0.00306	U	No	0.0307	J	Yes	1.88	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014			0.434		Yes	0.00329	U	No	0.242		Yes	0.00262	U	No	0.046		Yes	1.91		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018			1.32		Yes	0.00809	U	No	0.41		Yes	0.0066	U	No	0.102		Yes	4.75	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028			0.672		Yes	0.00829	U	No	0.393		Yes	0.00676	U	No	0.0673		Yes	3.36		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029			0.519		Yes	0.00386	U	No	0.281		Yes	0.00314	U	No	0.0541		Yes	2.45		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030			1.33		Yes	0.0138	U	No	0.673		Yes	0.011	U	No	0.137		Yes	5.48	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001			1.65		Yes	0.0353	U	No	0.62		Yes	0.0286	U	No	0.111		Yes	9.96	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003			1.21		Yes	0.0141	U	No	0.429	J	Yes	0.0115	U	No	0.0753	J	Yes	5.2	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005			1.71		Yes	0.0517	U	No	0.903		Yes	0.0422	U	No	0.0515	U	No	7.57	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007			1.47		Yes	0.0156	U	No	0.275		Yes	0.0127	U	No	0.0617		Yes	3.37		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016			1.78		Yes	0.0382	U	No	0.676		Yes	0.0312	U	No	0.0381	U	No	9.44	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008			2.52		Yes	0.0216	U	No	0.212		Yes	0.517		Yes	0.0653		Yes	10.2	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011			1.17		Yes	0.00565	U	No	0.334		Yes	0.00458	U	No	0.0635		Yes	4.21	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018			1.78		Yes	0.015	U	No	0.494		Yes	0.0121	U	No	0.145		Yes	7.03	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028			1.29		Yes	0.0242	U	No	0.449		Yes	0.0196	U	No	0.161		Yes	6.6	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029			1.32		Yes	0.0238	U	No	0.565		Yes	0.0193	U	No	0.13		Yes	6.36	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004			0.534		Yes	0.0209	U	No	0.39		Yes	0.0168	U	No	0.187		Yes	1.56		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001			0.0894		Yes	0.0227	U	No	0.275		Yes	0.0185	U	No	0.106		Yes	2.04		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002			0.114		Yes	0.0658		Yes	0.484		Yes	0.0138	U	No	0.135		Yes	3.83		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003			0.108		Yes	0.027	U	No	0.325		Yes	0.0217	U	No	0.122		Yes	1.38		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004			0.0888		Yes	0.00419	U	No	0.0776		Yes	0.00341	U	No	0.0352		Yes	0.245		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001			0.0267		Yes	0.00509	U	No	0.0724		Yes	0.00415	U	No	0.0336		Yes	0.364		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002			0.0331		Yes	0.00254	U	No	0.145		Yes	0.00207	U	No	0.0442		Yes	1.01		Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-83			PCB-84			PCB-85			PCB-86			PCB-87			PCB-88			PCB-89			PCB-90	
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg	
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	2.54		Yes	3.43		Yes	12	J	Yes	14.4		Yes	C86			0.00207	U	No	0.00206	U	No	40.2	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.00221	U	No	2.8		Yes	11.3	J	Yes	14.6		Yes	C86			0.00196	U	No	0.0253		Yes	32	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	0.00275	U	No	3.96	J	Yes	10.3	J	Yes	6.4		Yes	C86			0.00244	U	No	0.00802		Yes	43	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	0.0024	U	No	3.45		Yes	12.9	J	Yes	13.9		Yes	C86			0.00213	U	No	0.00916		Yes	41.6	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	2.46		Yes	5.21	J	Yes	14.7	J	Yes	18.9		Yes	C86			0.00281	U	No	0.0116		Yes	57.5	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	0.00276	U	No	2.32		Yes	4.65		Yes	7.52		Yes	C86			0.00245	U	No	0.00244	U	No	17.7	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.00244	U	No	1.82		Yes	6.31		Yes	9.55		Yes	C86			0.00216	U	No	0.00482		Yes	18.7	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	1.53		Yes	2.49		Yes	11.5	J	Yes	13.9		Yes	C86			0.00208	U	No	0.00207	U	No	33.1	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.00239	U	No	2.42		Yes	11.9	J	Yes	15.3		Yes	C86			0.00204	U	No	0.00219	U	No	38.7	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	1.2		Yes	1.14		Yes	6.6		Yes	9.13		Yes	C86			0.00208	U	No	0.00223	U	No	18.9	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.00159	U	No	1.91		Yes	10.2	J	Yes	9.98		Yes	C86			0.00167	U	No	0.00307	EMPC-J	Yes	22.8	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.00248	U	No	2.45		Yes	8.6	J	Yes	14.2		Yes	C86			0.00261	U	No	0.0197		Yes	29.4	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	0.00256	U	No	3.89		Yes	8.78	J	Yes	18.7		Yes	C86			0.00269	U	No	0.00703		Yes	50.7	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	16.2	J	Yes	3.55		Yes	17	J	Yes	17.1		Yes	C86			0.00223	U	No	0.00203	U	No	50.2	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.00497	U	No	4.57	J	Yes	0.0034	U	No	10.5		Yes	C86			0.00462	U	No	0.0043	U	No	58.8	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	2.14		Yes	2.73		Yes	6.93		Yes	11.2		Yes	C86			0.00224	U	No	0.0038		Yes	26.1	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	2.31		Yes	1.91		Yes	8.35	J	Yes	12.8		Yes	C86			0.00219	U	No	0.00476		Yes	23.8	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	3.99	J	Yes	2.59		Yes	9.89	J	Yes	15.1		Yes	C86			0.00444	U	No	0.00405	U	No	36.1	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	5.47	J	Yes	2.28		Yes	14.6	J	Yes	18.8		Yes	C86			0.163		Yes	0.0106		Yes	43.7	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	1.8		Yes	1.23		Yes	6.39		Yes	11.2		Yes	C86			0.00258	U	No	0.0024	U	No	19.8	J
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.003	U	No	1.16		Yes	7.65	J	Yes	5.6		Yes	C86			0.00256	U	No	0.00934		Yes	16.3	J
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	3.44		Yes	4.31	J	Yes	15.5	J	Yes	10.7		Yes	C86			0.00346	U	No	0.00942	EMPC-J	Yes	42.7	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.0151	U	No	0.288		Yes	3.29		Yes	2.97		Yes	C86			0.0141	U	No	0.0137	U	No	11.1	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.17		Yes	0.0799		Yes	0.789		Yes	0.362		Yes	C86			0.00158	U	No	0.0017	U	No	1.06	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.00177	U	No	1.25		Yes	6.09		Yes	4.7		Yes	C86			0.00151	U	No	0.00162	U	No	14.6	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	1.66		Yes	2.23		Yes	10.7	J	Yes	12.8		Yes	C86			0.00284	U	No	0.00304	U	No	28.6	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	1.38		Yes	2.74		Yes	11.2	J	Yes	12.4		Yes	C86			0.000944	U	No	0.00196	EMPC-J	Yes	32.3	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.00117	U	No	2.63		Yes	10	J	Yes	14.4		Yes	C86			0.00114	U	No	0.0226		Yes	30.8	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	0.00133	U	No	3.93	J	Yes	9.58	J	Yes	12.2		Yes	C86			0.00128	U	No	0.00755		Yes	46.6	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	7.26	J	Yes	3.49		Yes	14.7	J	Yes	15.3		Yes	C86			0.00109	U	No	0.00551		Yes	45.5	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	1.23		Yes	4.89	J	Yes	7.34	J	Yes	14.7		Yes	C86			0.00186	U	No	0.00687		Yes	58.2	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	0.859		Yes	2.48		Yes	5.56		Yes	9		Yes	C86			0.00118	U	No	0.00225		Yes	21.1	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	1.04		Yes	1.86		Yes	7.23	J	Yes	11		Yes	C86			0.00109	U	No	0.00479		Yes	21	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	2.66	J	Yes	2.54		Yes	10.8	J	Yes	14.5		Yes	C86			0.00158	U	No	0.00149	U	No	34.5	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	2.26	J	Yes	2.36		Yes	13	J	Yes	16.7		Yes	C86			0.0679		Yes	0.00502		Yes	40.8	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	1.49		Yes	1.18		Yes	6.5		Yes	10.1		Yes	C86			0.00116	U	No	0.00116	U	No	19.3	J
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	0.307		Yes	1.44		Yes	1.96		Yes	5.96		Yes	C86			0.00195	U	No	0.0758		Yes	11.5	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.271		Yes	1.07		Yes	0.892		Yes	2.89		Yes	C86			0.0118		Yes	0.0539		Yes	2.71	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.116		Yes	0.43		Yes	0.348		Yes	1.13		Yes	C86			0.000905	U	No	0.0134		Yes	0.713	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.0657		Yes	0.247		Yes	0.314		Yes	0.867		Yes	C86			0.00181	U	No	0.00901		Yes	0.626	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.184		Yes	0.921		Yes	0.769		Yes	2.47		Yes	C86			0.000542	U	No	0.0453		Yes	2.55	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.0393		Yes	0.0993		Yes	0.178		Yes	0.445		Yes	C86			0.0037	U	No	0.00357	U	No	0.247	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.0208		Yes	0.112		Yes	0.0853		Yes	0.263		Yes	C86			0.00139	U	No	0.00403		Yes	0.178	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	0.482		Yes	0.348		Yes	5.1		Yes	8.93		Yes	C86			0.00332	U	No	0.0149	EMPC-J	Yes	26.9	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	0.46		Yes	1.73		Yes	1.33		Yes	5.08		Yes	C86			0.00109	U	No	0.0729		Yes	3.45	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	1.77		Yes	7.47	J	Yes	5.55		Yes	19.7		Yes	C86			0.00343	U	No	0.444		Yes	18.4	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	0.627		Yes	2.37		Yes	1.96		Yes	6.93		Yes	C86			0.0376	U	No	0.106		Yes	6.76	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.75		Yes	2.04		Yes	3.75		Yes	11.9		Yes	C86			0.00298	U	No	0.0587		Yes	19.4	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	0.421		Yes	1.77		Yes	1.61		Yes	5.49		Yes	C86			0.00808	U	No	0.0602		Yes	4.97	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	4.37	J	Yes	25.6	J	Yes	13.4	J	Yes	79.1	J	Yes	C86			0.0194	U	No	0.284		Yes	147	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	2.67		Yes	10.7	J	Yes	7.95	J	Yes	32.6	J	Yes	C86			0.00806	U	No	0.506		Yes	55.5	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	4.84	J	Yes	13.8	J	Yes	8.06	J	Yes	48.1	J	Yes	C86			0.0145	U	No	0.0605		Yes	89.4	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	5.25	J	Yes	14.9	J	Yes	10.6	J	Yes	57.5	J	Yes	C86			0.0126	U	No	0.013	U	No	108	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	5.3	J	Yes	15.4	J	Yes	9.36	J	Yes	62.4	J	Yes	C86			0.013	U	No	0.0437		Yes	117	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	1.83		Yes	5.15	J	Yes	3.43		Yes	18.6		Yes	C86			0.00056	U	No	0.0308		Yes	35	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	3.51		Yes	10	J	Yes	6.5		Yes	34.6	J	Yes	C86			0.000942	U	No	0.115		Yes	60.7	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	4.76	J	Yes	13.2	J	Yes	17.2	J	Yes	54.5	J	Yes	C86			0.00221	U	No	0.441		Yes	101	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	1.11		Yes	4.53	J	Yes	3.63		Yes	14.3		Yes	C86			0.00113	U	No	0.217		Yes	24.9	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	0.774	J	Yes	3.8	J	Yes	3.36	J	Yes	12.3	J	Yes	C86			0.00157	U	No	0.188	J	Yes	21.8	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	1.37		Yes	3.54		Yes	2.1		Yes	15		Yes	C86			0.00102	U	No	0.0186		Yes	29.7	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	3.26		Yes	7.76	J	Yes	5.48		Yes	28.2	J	Yes	C86			0.00113	U	No	0.0343		Yes	54.7	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	1.68		Yes	5.91	J	Yes	3.52		Yes	23.8	J	Yes	C86			0.00255	U	No	0.0246		Yes	46.2	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	1.53		Yes	4.7	J	Yes	3.62		Yes	18.7		Yes	C86			0.0016	U	No	0.0148		Yes	35.2	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	3.23		Yes	10.3	J	Yes	11.2	J	Yes	38.5	J	Yes	C86			0.00139	U	No	0.417		Yes	72.9	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	5.47	J	Yes	18.2	J	Yes	18.4	J	Yes	66.3	J	Yes	C86			0.0273	U	No	0.867		Yes	112	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	2.1	J	Yes	11.9	J	Yes	7.36		Yes	31.6	J	Yes	C86			0.0306	U	No	0.641		Yes	56.2	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	4.63	J	Yes	18.9	J	Yes	15	J	Yes	60.9	J	Yes	C86			0.0316	U	No	0.834		Yes	112	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	1.85		Yes	7.81	J	Yes	4.52		Yes	20.6		Yes	C86			0.0106	U	No	0.402		Yes	31.9	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	5.87	J	Yes	22.7	J	Yes	18.4	J	Yes	74.2	J	Yes	C86			0.0291	U	No	0.955		Yes	139	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	4.07	J	Yes	20.1	J	Yes	11	J	Yes	63.5	J	Yes	C86			0.00647	U	No	0.225		Yes	117	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	2.18		Yes	8.78	J	Yes	6.61	J	Yes	26.9	J	Yes	C86			0.00295	U	No	0.416		Yes	46	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	4.34	J	Yes	11.9	J	Yes	7.25	J	Yes	41.9	J	Yes	C86			0.00515	U	No	0.0523		Yes	78.5	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	4.14	J	Yes	12.1	J	Yes	8.41	J	Yes	47.1	J	Yes	C86			0.00474	U	No	0.0121		Yes	88.8	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	4.07	J	Yes	11.9	J	Yes	7.49	J	Yes	48.2	J	Yes	C86			0.00465	U	No	0.0343		Yes	90.4	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	2.59		Yes	2.35		Yes	19.4	J	Yes	41.2	J	Yes	C86			0.0511	U	No	0.195		Yes	91.8	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	0.021	U	No	1.84		Yes	27.4	J	Yes	30.3	J	Yes	C86			0.0195	U	No	0.0366		Yes	41.2	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	2.86		Yes	4.45	J	Yes	25.5	J	Yes	43.6	J	Yes	C86			0.0061	U	No	0.178		Yes	70.5	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	0.00528	U	No	1.68		Yes	13.4	J	Yes	27.1	J	Yes	C86			0.00474	U	No	0.061		Yes	48.2	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.447		Yes	0.396		Yes	3.67		Yes	6.89		Yes	C86			0.00162	U	No	0.0328		Yes	15.7	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.447		Yes	0.331		Yes	5.64		Yes	6.07		Yes	C86			0.00107	U	No	0.00635		Yes	7.67	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	0.791		Yes	1.28		Yes	7.45		Yes	12.2		Yes	C86			0.000849	U	No	0.0465		Yes	20.9	J

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-91			PCB-92			PCB-93			PCB-94			PCB-95			PCB-96			PCB-97			
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	Yes	2.95		Yes	14.3	J	Yes	2.13		Yes	0.0274		Yes	11.9	J	Yes	0.0125		Yes	C86			0.00193
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	Yes	2.77		Yes	8.61	J	Yes	2.62		Yes	0.0578		Yes	9.59	J	Yes	0.037		Yes	C86			0.00183
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	Yes	3.36		Yes	12.5	J	Yes	3.81		Yes	0.00239	U	No	11.2	J	Yes	0.0271		Yes	C86			0.00228
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	Yes	3.13		Yes	14.2	J	Yes	3.86		Yes	0.0345		Yes	11.4	J	Yes	0.0251		Yes	C86			0.00198
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	Yes	4.34	J	Yes	15.2	J	Yes	0.00275	U	No	0.0441		Yes	18.4	J	Yes	0.0433		Yes	C86			0.00303
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	Yes	2.04		Yes	6.64	J	Yes	0.478		Yes	0.0121		Yes	8.7	J	Yes	0.0144		Yes	C86			0.00228
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	Yes	1.6		Yes	6.72	J	Yes	0.598		Yes	0.00887		Yes	6.86	J	Yes	0.0112		Yes	C86			0.00201
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	Yes	2.89		Yes	9.98	J	Yes	0.925		Yes	0.0116		Yes	7.72	J	Yes	0.012		Yes	C86			0.00194
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	Yes	2.63		Yes	10.4	J	Yes	1.07		Yes	0.0239		Yes	11.1	J	Yes	0.0223		Yes	C86			0.0022
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	Yes	1.06		Yes	4.8	J	Yes	0.145		Yes	0.00216	U	No	5.73	J	Yes	0.0091		Yes	C86			0.00224
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	Yes	1.54		Yes	8.56	J	Yes	4.42		Yes	0.0108		Yes	0.469		Yes	0.00903		Yes	C86			0.027
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	Yes	2.35		Yes	7.22	J	Yes	0.00209	U	No	0.0476		Yes	6.31	J	Yes	0.0397		Yes	C86			0.139
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	Yes	3.58		Yes	14.3	J	Yes	5.41		Yes	0.0258		Yes	1.48		Yes	0.0405		Yes	C86			0.0548
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	Yes	3.39		Yes	16.7	J	Yes	5.85		Yes	0.0363		Yes	1.76		Yes	0.0326		Yes	C86			0.0697
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	Yes	3.85		Yes	15.6	J	Yes	9.32	J	Yes	0.0388		Yes	0.632		Yes	0.0502		Yes	C86			0.0863
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	Yes	2.67		Yes	9.48	J	Yes	6.15		Yes	0.0141		Yes	0.338		Yes	0.0182		Yes	C86			0.0332
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	Yes	1.92		Yes	8.54	J	Yes	4.48		Yes	0.00958		Yes	0.25		Yes	0.0163		Yes	C86			0.0262
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	Yes	2.92		Yes	10.7	J	Yes	5.96		Yes	0.0129		Yes	0.502		Yes	0.0108		Yes	C86			0.039
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	Yes	2.6		Yes	12.1	J	Yes	6.68		Yes	0.0126		Yes	0.746		Yes	0.0305		Yes	C86			0.0617
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	Yes	1.09		Yes	5.82	J	Yes	4.56		Yes	0.00705	EMPC-J	Yes	0.665		Yes	0.0121	EMPC-J	Yes	C86			0.0195
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	Yes	1.28		Yes	5.16	J	Yes	1.03		Yes	0.0109		Yes	3.74	J	Yes	0.0127		Yes	C86			0.00276
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	Yes	3.17		Yes	15.5	J	Yes	1.42		Yes	0.0036	U	No	14.2	J	Yes	0.0258		Yes	C86			0.00373
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	Yes	0.418		Yes	1.55		Yes	0.304		Yes	0.0125	U	No	1.07		Yes	0.00522	U	No	C86			0.0145
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	Yes	0.0756		Yes	1.24		Yes	0.084		Yes	0.00165	U	No	0.223		Yes	0.00101	U	No	C86			0.00171
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	Yes	1.02		Yes	5.46	J	Yes	0.353		Yes	0.00157	U	No	4.54	J	Yes	0.00842		Yes	C86			0.00163
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	Yes	2.45		Yes	10.3	J	Yes	0.852		Yes	0.00779		Yes	9.88	J	Yes	0.00819		Yes	C86			0.00306
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	Yes	2.31		Yes	11.7	J	Yes	3.17		Yes	0.0198		Yes	6.69	J	Yes	0.0109		Yes	C86			0.0128
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	Yes	2.57		Yes	7.94	J	Yes	1.36		Yes	0.0529		Yes	8.02	J	Yes	0.0383		Yes	C86			0.0672
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	Yes	3.46		Yes	13.4	J	Yes	4.57		Yes	0.0128		Yes	6.6	J	Yes	0.0334		Yes	C86			0.0265
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	Yes	3.25		Yes	15.3	J	Yes	4.75		Yes	0.0353		Yes	7.08	J	Yes	0.0285		Yes	C86			0.0318
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	Yes	4.09	J	Yes	15.4	J	Yes	4.67	J	Yes	0.0414		Yes	9.5	J	Yes	0.0468		Yes	C86			0.044
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	Yes	2.29		Yes	7.78	J	Yes	2.75		Yes	0.0129		Yes	5.35	J	Yes	0.0159		Yes	C86			0.014
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	Yes	1.74		Yes	7.54	J	Yes	2.34		Yes	0.00919		Yes	3.89	J	Yes	0.0135		Yes	C86			0.0123
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	Yes	2.9		Yes	10.3	J	Yes	3.24		Yes	0.0122		Yes	4.41	J	Yes	0.0114		Yes	C86			0.0184
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	Yes	2.62		Yes	11.1	J	Yes	3.39		Yes	0.0192		Yes	6.82	J	Yes	0.0257		Yes	C86			0.0261
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	Yes	1.07		Yes	5.3	J	Yes	2.3		Yes	0.00399	EMPC-J	Yes	3.26	J	Yes	0.0106	EMPC-J	Yes	C86			0.0101
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	Yes	1.43		Yes	2.41		Yes	0.285		Yes	0.076		Yes	7.47	J	Yes	0.0641		Yes	C86			0.0019
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	Yes	0.387		Yes	0.987		Yes	0.134		Yes	0.0331		Yes	1.97		Yes	0.0341		Yes	C86			0.014
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	Yes	0.126		Yes	0.425		Yes	0.0371		Yes	0.0071		Yes	0.823		Yes	0.00805		Yes	C86			0.00299
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	Yes	0.0914		Yes	0.337		Yes	0.0453		Yes	0.00674		Yes	0.54		Yes	0.00558		Yes	C86			0.00375
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	Yes	0.352		Yes	0.878		Yes	0.0765		Yes	0.024		Yes	1.84		Yes	0.0303		Yes	C86			0.00972
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	Yes	0.0414		Yes	0.195		Yes	0.0163		Yes	0.00345	U	No	0.257		Yes	0.00233		Yes	C86			0.00342
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	Yes	0.0305		Yes	0.0868		Yes	0.00737		Yes	0.00209		Yes	0.219		Yes	0.00268		Yes	C86			0.00128
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes	1.56		Yes	5.41	J	Yes	1		Yes	0.0547		Yes	7.84	J	Yes	0.0223		Yes	C86			0.00305
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	Yes	0.64		Yes	2.22		Yes	0.259		Yes	0.0648		Yes	3.6		Yes	0.0433		Yes	C86			0.0265
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes	2.67		Yes	6.84	J	Yes	0.634		Yes	0.204		Yes	13.6	J	Yes	0.238		Yes	C86			0.0828
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes	0.921		Yes	2.67		Yes	0.246		Yes	0.0881		Yes	5.05	J	Yes	0.0778		Yes	C86			0.0346
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes	1.91		Yes	3.55		Yes	0.334		Yes	0.0308		Yes	7.04	J	Yes	0.0737		Yes	C86			0.306
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	Yes	0.741		Yes	2.48		Yes	0.191		Yes	0.053		Yes	4.56	J	Yes	0.0425		Yes	C86			0.0177
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes	20.4	J	Yes	28.4	J	Yes	2		Yes	0.679		Yes	61.5	J	Yes	0.235		Yes	C86			0.0184
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes	7.91	J	Yes	10.9	J	Yes	1.83		Yes	0.546		Yes	30	J	Yes	0.485		Yes	C86			0.00764
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes	10.8	J	Yes	17.2	J	Yes	0.881		Yes	0.266		Yes	43.2	J	Yes	0.0633		Yes	C86			0.0137
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	Yes	10.6	J	Yes	17.8	J	Yes	0.512		Yes	0.129		Yes	49	J	Yes	0.0517		Yes	C86			0.0119
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes	11.6	J	Yes	21	J	Yes	0.495		Yes	0.115		Yes	47.6	J	Yes	0.0413		Yes	C86			0.0123
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes	4.07	J	Yes	6.02	J	Yes	0.357		Yes	0.0967		Yes	16.6	J	Yes	0.0346		Yes	C86			0.000605
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes	7.66	J	Yes	11.8	J	Yes	0.837		Yes	0.258		Yes	34.6	J	Yes	0.102		Yes	C86			0.0503
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes	13.6	J	Yes	18.7	J	Yes	3.6		Yes	0.413		Yes	52.8	J	Yes	0.638		Yes	C86			0.00238
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes	3.25		Yes	4.66	J	Yes	0.824		Yes	0.235		Yes	14.3	J	Yes	0.217		Yes	C86			0.0859
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes	2.95	J	Yes	3.99	J	Yes	0.78	J	Yes	0.168	J	Yes	11.9	J	Yes	0.171	J	Yes	C86			0.0461
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes	3.13		Yes	5.17	J	Yes	0.202		Yes	0.0534		Yes	13.7	J	Yes	0.0187		Yes	C86			0.0124
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes	6.1	J	Yes	10	J	Yes	0.514		Yes	0.154		Yes	25.9	J	Yes	0.0377		Yes	C86			0.0245
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes	4.14	J	Yes	7.59	J	Yes	0.161		Yes	0.055		Yes	20.6	J	Yes	0.0219		Yes	C86			0.00899
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes	3.46		Yes	6.23	J	Yes	0.165		Yes	0.0377		Yes	17.7	J	Yes	0.0126		Yes	C86			0.0147
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes	9.09	J	Yes	12.7	J	Yes	1.09		Yes	0.319		Yes	37.8	J	Yes	0.351		Yes	C86			0.118
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes	16.3	J	Yes	23.3	J	Yes	5.95		Yes	1.05		Yes	55.9	J	Yes	0.848		Yes	C86			0.0259
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	Yes	8.58	J	Yes	11.1	J	Yes	1.85		Yes	0.534		Yes	31.6	J	Yes	0.458		Yes	C86			0.0291
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes	17.6	J	Yes	20.8	J	Yes	4.98		Yes	1.07		Yes	55.4	J	Yes	0.774		Yes	C86			0.03
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes	5.23	J	Yes	6.9	J	Yes	1.29		Yes	0.46		Yes	17.4	J	Yes	0.416		Yes	C86			0.01
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes	21.4	J	Yes	25.9	J	Yes	5.98		Yes	1.28		Yes	65.8	J	Yes	0.689		Yes	C86			0.0277
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes	15.9	J	Yes	22.6	J	Yes	1.59		Yes	0.532		Yes	52.1	J	Yes	0.188		Yes	C86			0.0236
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes	6.46	J	Yes	8.96	J	Yes	1.52		Yes	0.449		Yes	25.1	J	Yes	0.402		Yes	C86			0.0293
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes	9.32	J	Yes	14.9	J	Yes	0.766		Yes	0.231		Yes	37.8	J	Yes	0.0553		Yes	C86			0.0124
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes	8.6	J	Yes	14.6	J	Yes	0.403		Yes	0.106		Yes	40.2	J	Yes	0.0425		Yes	C86			0.00689
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes	8.95	J	Yes	16.2	J	Yes	0.388		Yes	0.0899		Yes	37.9	J	Yes	0.032		Yes	C86			0.00893
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes	7.36	J	Yes	14.1	J	Yes	1.28		Yes	0.179		Yes	25.9	J	Yes	0.15		Yes	C86			0.266
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes	6.44	J	Yes	17.9	J	Yes	1.96		Yes	0.148		Yes	6.78	J	Yes	0.0266		Yes	C86			0.0613
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	Yes	8.93	J	Yes	18.4	J	Yes	0.00553	U	No	0.262		Yes	11.4	J	Yes	0.0862		Yes	C86			1.06
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes	5.66	J	Yes	11.2	J	Yes	0.00421	U	No	0.186		Yes	7.16	J	Yes	0.0277		Yes	C86			0.29
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	Yes	1.24		Yes	2.33		Yes	0.244		Yes	0.0304		Yes	4.77	J	Yes	0.0233		Yes	C86			0.0132
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	Yes	1.05		Yes	3.32		Yes	0.395		Yes	0.0266		Yes	1.45		Yes	0.00478		Yes	C86			0.000897
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	Yes	2.28		Yes	5.16	J	Yes	0.58		Yes	0.0762		Yes	4.31	J	Yes	0.0207		Yes	C86			0.0269

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-98			PCB-99			PCB-100			PCB-101			PCB-102			PCB-103			PCB-104			PCB-105		
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Qual		Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	U		No	41.3	J	Yes	C93			C90			0.00187	U	No	0.0249		Yes	0.000751	U	No	32.4	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	U		No	40.6	J	Yes	C93			C90			0.166		Yes	0.0382		Yes	0.00376	EMPC-J	Yes	27.4	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	U		No	34.1	J	Yes	C93			C90			0.00221	U	No	0.0167		Yes	0.00109	U	No	29.5	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	U		No	42	J	Yes	C93			C90			0.0639		Yes	0.0183		Yes	0.00145	EMPC-J	Yes	27	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	U		No	42.9	J	Yes	C93			C90			0.00241	U	No	0.0434		Yes	0.00332		Yes	30.1	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	U		No	16.1	J	Yes	C93			C90			0.00222	U	No	0.00407		Yes	0.00129	U	No	14.4	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	U		No	20.6	J	Yes	C93			C90			0.00196	U	No	0.00787		Yes	0.000867	U	No	20.5	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	U		No	27.6	J	Yes	C93			C90			0.00188	U	No	0.0145		Yes	0.00107	U	No	26.6	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	U		No	40.8	J	Yes	C93			C90			0.0577		Yes	0.0155		Yes	0.000845	U	No	32.7	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	U		No	15.8	J	Yes	C93			C90			0.00178	U	No	0.00187	U	No	0.000813	U	No	10.7	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01			Yes	27.5	J	Yes	C93			C90			0.924		Yes	0.00744		Yes	0.00053	U	No	25	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	J		Yes	34.1	J	Yes	C93			C90			1.57		Yes	0.0226		Yes	0.00329	EMPC-J	Yes	22.5	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03			Yes	40.9	J	Yes	C93			C90			2.65		Yes	0.0139		Yes	0.00409	EMPC-J	Yes	39.7	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04			Yes	39.8	J	Yes	C93			C90			2.92		Yes	0.0158		Yes	0.00333	EMPC-J	Yes	32.1	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008			Yes	41.2	J	Yes	C93			C90			1.7		Yes	0.0318		Yes	0.00249	U	No	31.9	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05			Yes	21	J	Yes	C93			C90			0.389		Yes	0.00384		Yes	0.00175	U	No	22.3	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002			Yes	26.4	J	Yes	C93			C90			0.445		Yes	0.0067		Yes	0.0016	U	No	27.8	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006			Yes	29	J	Yes	C93			C90			0.717		Yes	0.012		Yes	0.00168	U	No	28.9	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007			Yes	40.4	J	Yes	C93			C90			0.604		Yes	0.00337	U	No	0.00263	U	No	40.7	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026			Yes	16	J	Yes	C93			C90			0.108		Yes	0.00474		Yes	0.00155	U	No	16.7	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	U		No	19.3	J	Yes	C93			C90			0.039		Yes	0.0296		Yes	0.00489		Yes	18.5	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	U		No	41.3	J	Yes	C93			C90			0.0536		Yes	0.0109	EMPC-J	Yes	0.00169	U	No	39.8	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	U		No	11.2	J	Yes	C93			C90			0.00982	U	No	0.0109	U	No	0.005	U	No	13.8	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	U		No	3.4		Yes	C93			C90			0.00136	U	No	0.00143	U	No	0.000989	U	No	6.52	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	U		No	23.3	J	Yes	C93			C90			0.0337		Yes	0.00136	U	No	0.000913	U	No	17.1	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	U		No	32.7	J	Yes	C93			C90			0.00244	U	No	0.00567		Yes	0.00109	U	No	31.8	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01			Yes	35	J	Yes	C93			C90			0.422		Yes	0.0169		Yes	0.000325	U	No	29	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	J		Yes	37.5	J	Yes	C93			C90			0.84		Yes	0.0307		Yes	0.00353	EMPC-J	Yes	25	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03			Yes	37.3	J	Yes	C93			C90			1.25		Yes	0.0154		Yes	0.00222	EMPC-J	Yes	34.3	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04			Yes	41	J	Yes	C93			C90			1.34		Yes	0.0172		Yes	0.00229	EMPC-J	Yes	29.3	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008			Yes	42	J	Yes	C93			C90			0.852		Yes	0.0376		Yes	0.00228		Yes	31	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05			Yes	18.1	J	Yes	C93			C90			0.157		Yes	0.00398		Yes	0.000737	U	No	17.6	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002			Yes	23.2	J	Yes	C93			C90			0.201		Yes	0.00734		Yes	0.000598	U	No	23.8	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006			Yes	28.2	J	Yes	C93			C90			0.33		Yes	0.0134		Yes	0.000675	U	No	27.7	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007			Yes	40.6	J	Yes	C93			C90			0.283		Yes	0.00979		Yes	0.000791	U	No	36	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026			Yes	15.9	J	Yes	C93			C90			0.0532		Yes	0.00279		Yes	0.000586	U	No	13.6	J	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	U		No	5.82	J	Yes	C93			C90			0.301		Yes	0.152		Yes	0.0177		Yes	3.89	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013			Yes	1.97		Yes	C93			C90			0.0318		Yes	0.0529		Yes	0.00647		Yes	1.57		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044			Yes	0.656		Yes	C93			C90			0.00328		Yes	0.0118		Yes	0.00107		Yes	0.781		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061			Yes	0.623		Yes	C93			C90			0.00312		Yes	0.0135		Yes	0.00143		Yes	0.742		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007			Yes	1.77		Yes	C93			C90			0.0316		Yes	0.034		Yes	0.00368		Yes	1.49		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	U		No	0.295		Yes	C93			C90			0.00286	U	No	0.00435		Yes	0.000325	U	No	0.498		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	U		No	0.153		Yes	C93			C90			0.00188		Yes	0.00255	EMPC-J	Yes	0.000224	U	No	0.181		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	U		No	19.7	J	Yes	C93			C90			0.178		Yes	0.296		Yes	0.00503		Yes	11.7	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055			Yes	3.79		Yes	C93			C90			0.0257		Yes	0.095		Yes	0.00921		Yes	3.69		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057			Yes	14.1	J	Yes	C93			C90			0.204		Yes	0.313		Yes	0.0318		Yes	7.43	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	U		No	5.69	J	Yes	C93			C90			0.104		Yes	0.107		Yes	0.016		Yes	5.46	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006			Yes	13.1	J	Yes	C93			C90			0.00266	U	No	0.15		Yes	0.00485		Yes	9.99	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	EMPC-J		Yes	4.8	J	Yes	C93			C90			0.0339		Yes	0.084		Yes	0.00629		Yes	4.22	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	U		No	77.3	J	Yes	C93			C90			2.47		Yes	2.48		Yes	0.212		Yes	31.4	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	U		No	31.4	J	Yes	C93			C90			2.09		Yes	0.866		Yes	0.165		Yes	15.7	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	U		No	50.2	J	Yes	C93			C90			0.543		Yes	1.43		Yes	0.0951		Yes	23.9	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	U		No	54.3	J	Yes	C93			C90			0.482		Yes	0.813		Yes	0.0317		Yes	30.2	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	U		No	59.6	J	Yes	C93			C90			0.438		Yes	0.946		Yes	0.0374	EMPC-J	Yes	39.6	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	U		No	19.7	J	Yes	C93			C90			0.243		Yes	0.45		Yes	0.029		Yes	9.2	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008			Yes	31.3	J	Yes	C93			C90			1.03		Yes	1.09		Yes	0.0907		Yes	17.3	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	U		No	59	J	Yes	C93			C90			1.67		Yes	1.61		Yes	0.178		Yes	29.1	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011			Yes	12.4	J	Yes	C93			C90			0.85		Yes	0.4		Yes	0.0677		Yes	6.87	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	J		Yes	12.3	J	Yes	C93			C90			0.522		Yes	0.326	J	Yes	0.051	J	Yes	5.91	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014			Yes	16.3	J	Yes	C93			C90			0.178		Yes	0.395		Yes	0.0192		Yes	8.7	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018			Yes	27.7	J	Yes	C93			C90			0.331		Yes	0.939		Yes	0.05		Yes	16.7	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028			Yes	21.7	J	Yes	C93			C90			0.215		Yes	0.342		Yes	0.011		Yes	15.5	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029			Yes	17.5	J	Yes	C93			C90			0.125		Yes	0.311		Yes	0.009		Yes	11	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030			Yes	39.6	J	Yes	C93			C90			1.41		Yes	0.652		Yes	0.0514		Yes	25.1	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	U		No	65.3	J	Yes	C93			C90			3.75		Yes	2.19		Yes	0.393		Yes	31.7	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	U		No	29.6	J	Yes	C93			C90			2.2		Yes	0.856		Yes	0.127		Yes	12.3	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	U		No	62.1	J	Yes	C93			C90			3.64		Yes	2.08		Yes	0.297		Yes	30.8	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	U		No	16.5	J	Yes	C93			C90			1.38		Yes	0.567		Yes	0.139		Yes	8.93	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	U		No	73.2	J	Yes	C93			C90			4.24	J	Yes	2.45		Yes	0.291		Yes	35.3	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008			Yes	61.2	J	Yes	C93			C90			1.97		Yes	1.99		Yes	0.17		Yes	26.5	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011			Yes	25.5	J	Yes	C93			C90			1.7		Yes	0.721		Yes	0.135		Yes	13	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018			Yes	43.1	J	Yes	C93			C90			0.476		Yes	1.28		Yes	0.0809		Yes	21.6	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028			Yes	44.2	J	Yes	C93			C90			0.399		Yes	0.667		Yes	0.0253		Yes	25.6	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029			Yes	45.9	J	Yes	C93			C90			0.336		Yes	0.74		Yes	0.0282	EMPC-J	Yes	30.3	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004			Yes	70	J	Yes	C93			C90			0.0456	U	No	0.652		Yes	0.0192		Yes	39.1	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001			Yes	137	J	Yes	C93			C90			0.38		Yes	0.318		Yes	0.0112	EMPC-J	Yes	79.2	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002			Yes	119	J	Yes	C93			C90			1.56		Yes	0.406		Yes	0.0294		Yes	75.3	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003			Yes	43.7	J	Yes	C93			C90			0.824		Yes	0.346		Yes	0.0101	EMPC-J	Yes	29.1	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004			Yes	10.4	J	Yes	C93			C90			0.0291		Yes	0.111		Yes	0.00278		Yes	6.29	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	U		No	24	J	Yes	C93			C90			0.079		Yes	0.0642		Yes	0.00147	EMPC-J	Yes	16.2	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002			Yes	30.2	J	Yes	C93			C90			0.244		Yes	0.138		Yes	0.00629		Yes	20.5	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-106			PCB-107			PCB-108			PCB-109			PCB-110			PCB-111			PCB-112			PCB-113	
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg	
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.00149	U	No	1.27		Yes	0.258		Yes	C86			73.2	J	Yes	0.112		Yes	0.00145	U	No	C90	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.00142	U	No	0.905		Yes	0.148		Yes	C86			56.7	J	Yes	0.103		Yes	0.00138	U	No	C90	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	0.00176	U	No	1.34		Yes	0.245		Yes	C86			67.7	J	Yes	0.126		Yes	0.00171	U	No	C90	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	0.00154	U	No	1.48		Yes	0.311		Yes	C86			70.3	J	Yes	0.117		Yes	0.00149	U	No	C90	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	0.00226	U	No	2.04		Yes	0.452		Yes	C86			72.5	J	Yes	0.132		Yes	0.00201	U	No	C90	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	0.00177	U	No	0.631		Yes	0.145		Yes	C86			42.7	J	Yes	0.0367		Yes	0.00172	U	No	C90	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.00156	U	No	0.98		Yes	0.183		Yes	C86			40.5	J	Yes	0.049		Yes	0.00152	U	No	C90	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.0015	U	No	1.27		Yes	0.217		Yes	C86			55.6	J	Yes	0.00137	U	No	0.00146	U	No	C90	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.00164	U	No	1.71		Yes	0.355		Yes	C86			49.7	J	Yes	0.0806		Yes	0.00146	U	No	C90	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	0.00167	U	No	1.02		Yes	0.528		Yes	C86			16.5	J	Yes	0.0211		Yes	0.00149	U	No	C90	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.00111	U	No	1.07		Yes	0.171		Yes	C86			43.5	J	Yes	0.0759		Yes	0.00108	U	No	C90	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.00174	U	No	0.874		Yes	0.114		Yes	C86			45.9	J	Yes	0.0799		Yes	0.00168	U	No	C90	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	0.00179	U	No	1.63		Yes	0.275		Yes	C86			73.5	J	Yes	0.158		Yes	0.00173	U	No	C90	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	0.00148	U	No	1.8		Yes	0.324		Yes	C86			69.6	J	Yes	0.137		Yes	0.185		Yes	C90	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.00327	U	No	2.2		Yes	0.416		Yes	C86			76.7	J	Yes	0.139		Yes	0.00304	U	No	C90	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.00149	U	No	0.905		Yes	0.206		Yes	C86			56.4	J	Yes	0.0507		Yes	0.869		Yes	C90	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	0.00146	U	No	1.29		Yes	0.251		Yes	C86			47	J	Yes	0.063		Yes	0.00141	U	No	C90	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.00295	U	No	1.39		Yes	0.234		Yes	C86			54.5	J	Yes	0.0757		Yes	0.00286	U	No	C90	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.00306	U	No	2.16		Yes	0.389		Yes	C86			59.1	J	Yes	0.0947		Yes	0.0805		Yes	C90	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	0.00182	U	No	1.67		Yes	0.663		Yes	C86			19.5	J	Yes	0.0272		Yes	0.637		Yes	C90	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.00206	U	No	0.61		Yes	0.152		Yes	C86			34.3	J	Yes	0.069		Yes	0.00183	U	No	C90	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	0.00278	U	No	1.2		Yes	0.324		Yes	C86			77.9	J	Yes	0.096		Yes	0.00248	U	No	C90	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.00998	U	No	0.227		Yes	0.0404		Yes	C86			21.7	J	Yes	0.0364		Yes	0.00989	U	No	C90	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.00127	U	No	0.00113	U	No	0.00124	U	No	C86			4.46	J	Yes	0.0159		Yes	0.00113	U	No	C90	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.00121	U	No	0.637		Yes	0.1		Yes	C86			31.5	J	Yes	0.0415		Yes	0.00108	U	No	C90	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	0.00228	U	No	1.88		Yes	0.272		Yes	C86			63	J	Yes	0.0805		Yes	0.00203	U	No	C90	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.000658	U	No	1.18		Yes	0.218		Yes	C86			59.7	J	Yes	0.0955		Yes	0.000641	U	No	C90	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.000787	U	No	0.89		Yes	0.132		Yes	C86			51.5	J	Yes	0.0919		Yes	0.000762	U	No	C90	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	0.000887	U	No	1.48		Yes	0.259		Yes	C86			70.4	J	Yes	0.141		Yes	0.00086	U	No	C90	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	0.000757	U	No	1.62		Yes	0.317		Yes	C86			70	J	Yes	0.126		Yes	0.0833		Yes	C90	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	0.00138	U	No	2.12		Yes	0.434		Yes	C86			74.6	J	Yes	0.136		Yes	0.00126	U	No	C90	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	0.000829	U	No	0.741		Yes	0.169		Yes	C86			48.2	J	Yes	0.0423		Yes	0.349		Yes	C90	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.000758	U	No	1.12		Yes	0.214		Yes	C86			43.4	J	Yes	0.0553		Yes	0.000735	U	No	C90	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.00108	U	No	1.33		Yes	0.225		Yes	C86			55.1	J	Yes	0.0351		Yes	0.00105	U	No	C90	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.00111	U	No	1.9		Yes	0.369		Yes	C86			53.6	J	Yes	0.0864		Yes	0.0337		Yes	C90	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.000872	U	No	1.34		Yes	0.594		Yes	C86			18	J	Yes	0.0241		Yes	0.311		Yes	C90	
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	0.00143	U	No	0.765		Yes	0.198		Yes	C86			11.7	J	Yes	0.0163		Yes	0.0188		Yes	C90	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.000553	U	No	0.348		Yes	0.0669		Yes	C86			4.61	J	Yes	0.00521		Yes	0.0235		Yes	C90	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.000604	U	No	0.158		Yes	0.0182		Yes	C86			2.16		Yes	0.00218		Yes	0.00626		Yes	C90	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.00121	U	No	0.159		Yes	0.0208		Yes	C86			1.56		Yes	0.00212	EMPC-J	Yes	0.00125	U	No	C90	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.000362	U	No	0.318		Yes	0.0625		Yes	C86			4.34	J	Yes	0.00386		Yes	0.0472		Yes	C90	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.00247	U	No	0.107		Yes	0.00769		Yes	C86			0.8		Yes	0.00229	U	No	0.00361		Yes	C90	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.000928	U	No	0.0304		Yes	0.00531		Yes	C86			0.503		Yes	0.000861	U	No	0.00157		Yes	C90	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	0.0024	U	No	2.65		Yes	0.284		Yes	C86			18.6	J	Yes	0.042		Yes	0.00225	U	No	C90	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	0.000786	U	No	0.88		Yes	0.084		Yes	C86			9.36	J	Yes	0.012		Yes	0.000737	U	No	C90	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	0.00249	U	No	2.12		Yes	0.435		Yes	C86			31.2	J	Yes	0.00236	U	No	0.132		Yes	C90	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	0.0272	U	No	1.08		Yes	0.24		Yes	C86			12	J	Yes	0.0258	U	No	0.0255	U	No	C90	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.00216	U	No	2.06		Yes	0.393		Yes	C86			21.1	J	Yes	0.0235		Yes	0.00202	U	No	C90	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	0.00585	U	No	0.916		Yes	0.165		Yes	C86			9.85	J	Yes	0.0104		Yes	0.00549	U	No	C90	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	0.0143	U	No	8.07	J	Yes	3.25		Yes	C86			106	J	Yes	0.156		Yes	0.0135	U	No	C90	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	0.00595	U	No	3.68		Yes	1.4		Yes	C86			51.8	J	Yes	0.0552		Yes	0.0056	U	No	C90	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	0.0107	U	No	6.86	J	Yes	2.5		Yes	C86			66.7	J	Yes	0.11		Yes	0.0101	U	No	C90	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	0.0093	U	No	6.66	J	Yes	2.65		Yes	C86			83.1	J	Yes	0.0693		Yes	0.00875	U	No	C90	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	0.00961	U	No	8.22	J	Yes	3.12		Yes	C86			97.4	J	Yes	0.1		Yes	0.00905	U	No	C90	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	0.000427	U	No	2.45		Yes	0.916		Yes	C86			30.1	J	Yes	0.038		Yes	0.000393	U	No	C90	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	0.000621	U	No	3.89	J	Yes	1.74		Yes	C86			53.1	J	Yes	0.0657		Yes	0.494		Yes	C90	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	0.00168	U	No	6.97	J	Yes	2.82		Yes	C86			86.6	J	Yes	0.0867		Yes	0.00155	U	No	C90	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	0.000742	U	No	1.48		Yes	0.636		Yes	C86			23	J	Yes	0.0243		Yes	0.318		Yes	C90	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	0.0012	U	No	1.4	J	Yes	0.567	J	Yes	C86			21.1	J	Yes	0.0221	EMPC-J	Yes	0.035	J	Yes	C90	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	0.000776	U	No	2.16		Yes	0.739		Yes	C86			25.9	J	Yes	0.0326		Yes	0.000716	U	No	C90	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	0.000746	U	No	4.05	J	Yes	1.6		Yes	C86			40.8	J	Yes	0.0617		Yes	0.15		Yes	C90	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	0.00168	U	No	3.03		Yes	1.25		Yes	C86			38	J	Yes	0.0319		Yes	0.31		Yes	C90	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	0.00105	U	No	2.3		Yes	0.988		Yes	C86			30.5	J	Yes	0.0306		Yes	0.142		Yes	C90	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	0.00106	U	No	5.05	J	Yes	2.29		Yes	C86			70.5	J	Yes	0.0442		Yes	0.00098	U	No	C90	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	0.0201	U	No	8.8	J	Yes	2.84		Yes	C86			96.6	J	Yes	0.167		Yes	0.019	U	No	C90	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	0.0232	U	No	3.29		Yes	1.34		Yes	C86			53.6	J	Yes	0.0214	U	No	0.0216	U	No	C90	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	0.0239	U	No	6.89	J	Yes	2.33		Yes	C86			88.1	J	Yes	0.125		Yes	0.0223	U	No	C90	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	0.00801	U	No	2.31		Yes	0.948		Yes	C86			35.4	J	Yes	0.0439		Yes	0.00746	U	No	C90	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	0.0221	U	No	8.23	J	Yes	2.77		Yes	C86			108	J	Yes	0.155		Yes	0.0206	U	No	C90	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	0.00476	U	No	6.61	J	Yes	2.72		Yes	C86			87.5	J	Yes	0.124		Yes	0.177		Yes	C90	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	0.00217	U	No	3		Yes	1.16		Yes	C86			42.8	J	Yes	0.0456		Yes	0.101		Yes	C90	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	0.00379	U	No	5.98	J	Yes	2.22		Yes	C86			58.6	J	Yes	0.0948		Yes	0.0506		Yes	C90	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	0.00347	U	No	5.53	J	Yes	2.22		Yes	C86			69.1	J	Yes	0.0577		Yes	0.0991		Yes	C90	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	0.00341	U	No	6.3	J	Yes	2.43		Yes	C86			75.7	J	Yes	0.0774		Yes	0.0492		Yes	C90	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	0.037	U	No	9.49	J	Yes	2.04		Yes	C86			65.9	J	Yes	0.128		Yes	0.229		Yes	C90	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	0.0148	U	No	11.1	J	Yes	0.317		Yes	C86			79.3	J	Yes	0.32		Yes	0.22		Yes	C90	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	0.00462	U	No	9.6	J	Yes	0.469		Yes	C86			108	J	Yes	0.255		Yes	0.179		Yes	C90	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	0.00344	U	No	5.05	J	Yes	0.415		Yes	C86			52.2	J	Yes	0.0642		Yes	0.00322	U	No	C90	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.00108	U	No	1.54		Yes	0.314		Yes	C86			11.2	J	Yes	0.0181		Yes	0.0309		Yes	C90	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.000703	U	No	1.74		Yes	0.0542		Yes	C86			12.8	J	Yes	0.051		Yes	0.0469		Yes	C90	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	0.00056	U	No	2.25		Yes	0.117		Yes	C86			24.5	J	Yes	0.0599		Yes	0.115		Yes	C90	

BERA Tissue Chemistry Data from Above Dundee Dam

						PCB-114			PCB-115			PCB-116			PCB-117			PCB-118			PCB-119			PCB-120			
						µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01		1.71		Yes	0.00133	U	No	C85			2.63	EMPC-J	Yes	78.3	J	Yes	C86			0.287		Yes	0.0757
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02		1.64		Yes	0.00126	U	No	C85			3.02		Yes	71.8	J	Yes	C86			0.245		Yes	0.0842
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03		1.23		Yes	0.00157	U	No	C85			2.93		Yes	69.1	J	Yes	C86			0.306		Yes	0.11
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04		1.46		Yes	0.00137	U	No	C85			0.00165	U	No	70.4	J	Yes	C86			0.349		Yes	0.111
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008		1.59		Yes	0.0021	U	No	C85			0.00214	U	No	77.2	J	Yes	C86			0.376		Yes	0.0927
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05		0.668		Yes	0.00158	U	No	C85			1.72		Yes	33.2	J	Yes	C86			0.0944		Yes	0.0192
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002		0.93		Yes	0.00139	U	No	C85			1.98		Yes	45.5	J	Yes	C86			0.148		Yes	0.0249
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006		1.13		Yes	0.00134	U	No	C85			0.00161	U	No	67.3	J	Yes	C86			0.215		Yes	0.0395
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007		1.93		Yes	0.00153	U	No	C85			2.37		Yes	77.3	J	Yes	C86			0.232		Yes	0.0422
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026		0.76		Yes	0.00155	U	No	C85			0.00158	U	No	24.1	J	Yes	C86			0.0688		Yes	0.00148
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01		1.13		Yes	2.22		Yes	C85			4.16	J	Yes	61.6	J	Yes	C86			0.203		Yes	0.0462
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02		1.25		Yes	1.41		Yes	C85			3.75		Yes	55.5	J	Yes	C86			0.203		Yes	0.0644
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03		1.48		Yes	2.84		Yes	C85			5.69	J	Yes	94	J	Yes	C86			0.356		Yes	0.119
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04		1.68		Yes	3.17		Yes	C85			6.54	J	Yes	80.6	J	Yes	C86			0.391		Yes	0.125
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008		1.55		Yes	0.00291	U	No	C85			15.6	J	Yes	81.1	J	Yes	C86			0.376		Yes	0.0909
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05		0.933		Yes	2.08		Yes	C85			2.34		Yes	47.5	J	Yes	C86			0.138		Yes	0.0247
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002		1.3		Yes	3.97		Yes	C85			2.31		Yes	66.2	J	Yes	C86			0.202		Yes	0.0292
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006		1.22		Yes	3.15		Yes	C85			3		Yes	70.3	J	Yes	C86			0.241		Yes	0.0434
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007		2.14		Yes	2.63		Yes	C85			4.08	J	Yes	96.2	J	Yes	C86			0.274		Yes	0.0454
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026		0.98		Yes	1.08		Yes	C85			1.32		Yes	35.5	J	Yes	C86			0.082		Yes	0.00457
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011		0.696		Yes	0.00192	U	No	C85			0.00195	U	No	44.6	J	Yes	C86			0.171		Yes	0.0368
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019		1.69		Yes	0.00259	U	No	C85			0.00264	U	No	99.5	J	Yes	C86			0.278		Yes	0.0533
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001		0.515		Yes	0.0097	U	No	C85			1.31		Yes	34.9	J	Yes	C86			0.105		Yes	0.0142
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003		0.115		Yes	0.00118	U	No	C85			0.601		Yes	14.5	J	Yes	C86			0.0207		Yes	0.00447
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005		1.12		Yes	0.00113	U	No	C85			1.46		Yes	41.8	J	Yes	C86			0.114		Yes	0.0207
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022		1.64		Yes	0.00212	U	No	C85			2.21		Yes	73.5	J	Yes	C86			0.227		Yes	0.0381
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01		1.45		Yes	1.01		Yes	C85			3.33	EMPC-J	Yes	70.7	J	Yes	C86			0.249		Yes	0.0622
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02		1.45		Yes	0.677		Yes	C85			3.37		Yes	64	J	Yes	C86			0.225		Yes	0.0747
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03		1.35		Yes	1.34		Yes	C85			4.24	J	Yes	80.9	J	Yes	C86			0.33		Yes	0.114
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04		1.56		Yes	1.42		Yes	C85			2.93	J	Yes	75	J	Yes	C86			0.368		Yes	0.117
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008		1.57		Yes	0.00125	U	No	C85			7.82	J	Yes	79.2	J	Yes	C86			0.376		Yes	0.0918
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05		0.774		Yes	0.835		Yes	C85			1.97		Yes	38.9	J	Yes	C86			0.112		Yes	0.0214
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002		1.1		Yes	1.79		Yes	C85			2.13		Yes	54.8	J	Yes	C86			0.172		Yes	0.0268
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006		1.17		Yes	1.45		Yes	C85			1.38		Yes	68.7	J	Yes	C86			0.227		Yes	0.0413
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007		2.02		Yes	1.09		Yes	C85			3.08	J	Yes	85.1	J	Yes	C86			0.249		Yes	0.0435
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026		0.867		Yes	0.527		Yes	C85			0.645		Yes	29.7	J	Yes	C86			0.0752		Yes	0.00261
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01		0.242		Yes	0.266		Yes	C85			0.332		Yes	9.84	J	Yes	C86			0.0475		Yes	0.00126
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013		0.118		Yes	0.0799		Yes	C85			0.165		Yes	4.31	J	Yes	C86			0.0202		Yes	0.00382
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044		0.0502		Yes	0.0528		Yes	C85			0.0752		Yes	2.16		Yes	C86			0.00772		Yes	0.0015
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061		0.0493		Yes	0.04		Yes	C85			0.078		Yes	2.04		Yes	C86			0.00857		Yes	0.00182
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007		0.102		Yes	0.065		Yes	C85			0.11		Yes	4.26	J	Yes	C86			0.0149		Yes	0.00234
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058		0.037		Yes	0.0185		Yes	C85			0.0408		Yes	1.44		Yes	C86			0.00558		Yes	0.00233
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066		0.0104		Yes	0.0124		Yes	C85			0.0115		Yes	0.405		Yes	C86			0.00126		Yes	0.000874
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035		0.798		Yes	0.588		Yes	C85			1.2		Yes	31.3	J	Yes	C86			0.17		Yes	0.0339
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055		0.251		Yes	0.108		Yes	C85			0.479		Yes	10.6	J	Yes	C86			0.05		Yes	0.000731
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057		0.622		Yes	0.00249	U	No	C85			0.00302	U	No	23.7	J	Yes	C86			0.113		Yes	0.00231
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004		0.334		Yes	0.351		Yes	C85			0.588		Yes	12.8	J	Yes	C86			0.0483		Yes	0.0253
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006		0.655		Yes	0.529		Yes	C85			0.909		Yes	26.4	J	Yes	C86			0.0949		Yes	0.0133
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052		0.28		Yes	0.181		Yes	C85			0.447		Yes	11	J	Yes	C86			0.00557	U	No	0.00544
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008		2.25		Yes	0.0145	U	No	C85			3.03		Yes	93.3	J	Yes	C86			0.486		Yes	0.181
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011		1.04		Yes	0.00604	U	No	C85			2.18		Yes	43.1	J	Yes	C86			0.218		Yes	0.0531
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018		1.87		Yes	0.0108	U	No	C85			4.29	J	Yes	75.9	J	Yes	C86			0.01	U	No	0.124
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028		2.33		Yes	0.00943	U	No	C85			0.011	U	No	89.6	J	Yes	C86			0.28		Yes	0.0669
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029		2.66		Yes	0.00975	U	No	C85			3.6		Yes	103	J	Yes	C86			0.357		Yes	0.0659
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002		0.738		Yes	0.572		Yes	C85			1.26		Yes	29.1	J	Yes	C86			0.143		Yes	0.033
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008		1.25		Yes	0.713		Yes	C85			1.76		Yes	50.1	J	Yes	C86			0.233		Yes	0.0673
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009		2.07		Yes	0.00153	U	No	C85			0.00177	U	No	82.9	J	Yes	C86			0.342		Yes	0.0853
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011		0.467		Yes	0.588		Yes	C85			0.884		Yes	19.6	J	Yes	C86			0.0958		Yes	0.021
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012		0.427	J	Yes	0.403	J	Yes	C85			0.656	J	Yes	17.8	J	Yes	C86			0.0889	J	Yes	0.0205
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014		0.648		Yes	0.561		Yes	C85			1.24		Yes	26.2	J	Yes	C86			0.111		Yes	0.0288
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018		1.22		Yes	1.03		Yes	C85			1.99		Yes	50.8	J	Yes	C86			0.204		Yes	0.0655
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028		1.05		Yes	0.964		Yes	C85			1.63		Yes	42.6	J	Yes	C86			0.125		Yes	0.0256
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029		0.774		Yes	0.909		Yes	C85			0.817		Yes	31.3	J	Yes	C86			0.108		Yes	0.0205
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030		1.67		Yes	1.29		Yes	C85			1.89		Yes	64.7	J	Yes	C86			0.184		Yes	0.0301
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001		2.53		Yes	0.0204	U	No	C85			5.13	J	Yes	98.4	J	Yes	C86			0.497		Yes	0.164
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003		0.975		Yes	0.0204	U	No	C85			1.52	J	Yes	35.3	J	Yes	C86			0.0214	U	No	0.0211
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005		2.44		Yes	1.6		Yes	C85			3.53		Yes	88.8	J	Yes	C86			0.394		Yes	0.13
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007		0.673		Yes	0.61		Yes	C85			1.15		Yes	27.1	J	Yes	C86			0.00737	U	No	0.0448
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016		2.67		Yes	3.12		Yes	C85			4.41	J	Yes	96.7	J	Yes	C86			0.459		Yes	0.167
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008		1.9		Yes	0.254		Yes	C85			2.59		Yes	78.2	J	Yes	C86			0.397		Yes	0.141
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011		0.862		Yes	0.185		Yes	C85			1.78		Yes	35.8	J	Yes	C86			0.18		Yes	0.0431
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018		1.67		Yes	0.327		Yes	C85			3.57	J	Yes	68	J	Yes	C86			0.0675		Yes	0.106
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028		1.93		Yes	0.302		Yes	C85			0.509		Yes	75	J	Yes	C86			0.232		Yes	0.0541
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029		2.05		Yes	0.299		Yes	C85			2.7		Yes	79.7	J	Yes	C86			0.276		Yes	0.0511
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004		3		Yes	3.15		Yes	C85			4.54	J	Yes	105	J	Yes	C86			0.584		Yes	0.0464
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001		6.3	J	Yes	5.14	J	Yes	C85			5.74	J	Yes	228	J	Yes	C86			0.632		Yes	0.125
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002		5.21	J	Yes	0.00406	U	No	C85			5.48	J	Yes	206	J	Yes	C86			0.00425	U	No	0.107
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003		1.78		Yes	0.00344	U	No	C85			0.00416	U	No	67.6	J	Yes	C86			0.247		Yes	0.0378
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004		0.49		Yes	0.41		Yes	C85			0.513		Yes	17.8	J	Yes	C86			0.0897		Yes	0.00737
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001		1.18		Yes	0.954		Yes	C85			1.09		Yes	50.3	J	Yes	C86			0.109		Yes	0.0215
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002		1.43		Yes	0.951		Yes	C85			1.45		Yes	61.7	J	Yes	C86			0.136		Yes	0.0265

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-121		PCB-122			PCB-123			PCB-124			PCB-125			PCB-126			PCB-127			PCB-128		
					µg/kg		µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01		Yes	0.234		Yes	1.43		Yes	C108			C86			0.0618		Yes	0.00158	U	No	15.5	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02		Yes	0.2		Yes	1.36		Yes	C108			C86			0.0546		Yes	0.00133	U	No	14.3	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03		Yes	0.189		Yes	1.17		Yes	C108			C86			0.0644		Yes	0.00164	U	No	14.2	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04		Yes	0.234		Yes	1.31		Yes	C108			C86			0.0888	EMPC-J	Yes	0.00171	U	No	16.1	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008		Yes	0.274		Yes	1.39		Yes	C108			C86			0.093		Yes	0.00206	U	No	17.5	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05		Yes	0.0019	U	No	0.62		Yes	C108			C86			0.0445		Yes	0.00192	U	No	6.4		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002		Yes	0.00166	U	No	0.895		Yes	C108			C86			0.0577		Yes	0.00181	U	No	10.2	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006		Yes	0.194		Yes	1.19		Yes	C108			C86			0.0908		Yes	0.00168	U	No	13.5	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007		Yes	0.369		Yes	1.62		Yes	C108			C86			0.0852		Yes	0.00189	U	No	15.2	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	U	No	0.217		Yes	0.677		Yes	C108			C86			0.0661		Yes	0.00167	U	No	4.17		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01		Yes	0.156		Yes	0.836		Yes	C108			C86			0.0899		Yes	0.139		Yes	11.8	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02		Yes	0.209		Yes	0.975		Yes	C108			C86			0.0586		Yes	0.174		Yes	10.4	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03		Yes	0.244		Yes	1.24		Yes	C108			C86			0.0968		Yes	0.193		Yes	18.6	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04		Yes	0.311		Yes	1.4		Yes	C108			C86			0.15		Yes	0.202		Yes	21.1	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008		Yes	0.273		Yes	1.34		Yes	C108			C86			0.0648	J	Yes	0.0032	U	No	17.1	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05		Yes	0.178		Yes	0.884		Yes	C108			C86			0.0512		Yes	0.127		Yes	9.39	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002		Yes	0.228		Yes	1.18		Yes	C108			C86			0.0886		Yes	0.164		Yes	14.2	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006		Yes	0.224		Yes	1.3		Yes	C108			C86			0.0534		Yes	0.173		Yes	14	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007		Yes	0.464		Yes	1.92		Yes	C108			C86			0.0883	J	Yes	0.266		Yes	19.2	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	EMPC-J	Yes	0.292		Yes	0.977		Yes	C108			C86			0.0937	J	Yes	0.125		Yes	5.75		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011		Yes	0.0996		Yes	0.695		Yes	C108			C86			0.0357		Yes	0.00177	U	No	8.99	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019		Yes	0.258		Yes	1.84		Yes	C108			C86			0.082	EMPC-J	Yes	0.00262	U	No	16.3	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001		Yes	0.0106	U	No	0.499		Yes	C108			C86			0.0173	U	No	0.0105	U	No	7.44	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003		Yes	0.00136	U	No	0.129		Yes	C108			C86			0.00367	U	No	0.00123	U	No	4.32		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005		Yes	0.00155	U	No	0.766		Yes	C108			C86			0.0333		Yes	0.0014	U	No	7.94	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022		Yes	0.251		Yes	1.44		Yes	C108			C86			0.0793		Yes	0.0022	U	No	14.4	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01		Yes	0.198		Yes	1.16		Yes	C108			C86			0.0746		Yes	0.0638		Yes	13.8	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02		Yes	0.204		Yes	1.18		Yes	C108			C86			0.0565		Yes	0.0839		Yes	12.4	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03		Yes	0.215		Yes	1.2		Yes	C108			C86			0.0797		Yes	0.0917		Yes	16.3	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04		Yes	0.268		Yes	1.35		Yes	C108			C86			0.116	EMPC-J	Yes	0.091		Yes	18.3	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008		Yes	0.273		Yes	1.36		Yes	C108			C86			0.0789	J	Yes	0.00132	U	No	17.3	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05		Yes	0.0719		Yes	0.726		Yes	C108			C86			0.0472		Yes	0.0515		Yes	7.6	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002		Yes	0.103		Yes	1.02		Yes	C108			C86			0.0716		Yes	0.0743		Yes	12	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006		Yes	0.208		Yes	1.24		Yes	C108			C86			0.0736		Yes	0.0799		Yes	13.7	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007		Yes	0.408		Yes	1.74		Yes	C108			C86			0.0865	J	Yes	0.11		Yes	16.9	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	EMPC-J	Yes	0.254		Yes	0.823		Yes	C108			C86			0.0796	J	Yes	0.0614		Yes	4.94		Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	U	No	0.0015	U	No	0.203		Yes	C108			C86			0.0353		Yes	0.00146	U	No	2.02		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013		Yes	0.0542		Yes	0.0946		Yes	C108			C86			0.0121		Yes	0.0121		Yes	0.761		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044		Yes	0.0232		Yes	0.0438		Yes	C108			C86			0.0064		Yes	0.00553		Yes	0.413		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061		Yes	0.019		Yes	0.039		Yes	C108			C86			0.00479		Yes	0.00514		Yes	0.399		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007		Yes	0.0421		Yes	0.0885		Yes	C108			C86			0.0104		Yes	0.0115		Yes	0.739		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	U	No	0.0118		Yes	0.0268		Yes	C108			C86			0.00315		Yes	0.00341		Yes	0.28		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	U	No	0.00533		Yes	0.00884		Yes	C108			C86			0.00131		Yes	0.00101	U	No	0.0752		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035		Yes	0.263		Yes	0.601		Yes	C108			C86			0.0761		Yes	0.0906		Yes	6.13		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	U	No	0.107		Yes	0.203		Yes	C108			C86			0.0319		Yes	0.0272		Yes	1.85		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	U	No	0.331		Yes	0.482		Yes	C108			C86			0.0469		Yes	0.0607		Yes	4.16		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	U	No	0.17		Yes	0.282		Yes	C108			C86			0.0439		Yes	0.0438		Yes	2.34		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006		Yes	0.23		Yes	0.513		Yes	C108			C86			0.0688		Yes	0.0695		Yes	4.17		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	U	No	0.129		Yes	0.249		Yes	C108			C86			0.0324		Yes	0.0287		Yes	1.92		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008		Yes	0.893		Yes	2.64		Yes	C108			C86			0.222		Yes	0.0144	U	No	19.4	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011		Yes	0.42		Yes	0.904		Yes	C108			C86			0.12		Yes	0.00615	U	No	7.84		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018		Yes	0.669		Yes	1.28		Yes	C108			C86			0.126	EMPC-J	Yes	0.0111	U	No	17.3	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028		Yes	0.737		Yes	2.25		Yes	C108			C86			1.07		Yes	0.0103	U	No	19.1	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	EMPC-J	Yes	0.889		Yes	1.99		Yes	C108			C86			0.296		Yes	0.25		Yes	19.7	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002		Yes	0.243		Yes	0.583		Yes	C108			C86			0.0543		Yes	0.0923		Yes	5.51		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008		Yes	0.456		Yes	0.924		Yes	C108			C86			0.135		Yes	0.15		Yes	8.36	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009		Yes	0.68		Yes	1.51		Yes	C108			C86			0.223		Yes	0.239		Yes	14.8	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011		Yes	0.176		Yes	0.428		Yes	C108			C86			0.0605		Yes	0.0464		Yes	3.47		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	J	Yes	0.147	J	Yes	0.388		Yes	C108			C86			0.0471		Yes	0.0539	J	Yes	3.9		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014		Yes	0.16		Yes	0.483		Yes	C108			C86			0.0527		Yes	0.0832		Yes	5.26		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018		Yes	0.379		Yes	0.806		Yes	C108			C86			0.123		Yes	0.126		Yes	9.44	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028		Yes	0.296		Yes	0.823		Yes	C108			C86			0.101		Yes	0.123		Yes	7.6	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029		Yes	0.24		Yes	0.66		Yes	C108			C86			0.0785		Yes	0.0917		Yes	6.21		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030		Yes	0.587		Yes	1.33		Yes	C108			C86			0.134		Yes	0.171		Yes	10.7	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001		Yes	0.81		Yes	1.96		Yes	C108			C86			0.296		Yes	0.27		Yes	20.7	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	U	No	0.448		Yes	0.784	J	Yes	C108			C86			0.0795		Yes	0.0803		Yes	5.88		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005		Yes	0.789		Yes	1.71		Yes	C108			C86			0.161		Yes	0.24		Yes	16.7	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007		Yes	0.332		Yes	0.538		Yes	C108			C86			0.0599		Yes	0.0696		Yes	4.33		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016		Yes	0.796		Yes	2.59		Yes	C108			C86			0.261		Yes	0.281		Yes	18.5	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008		Yes	0.74		Yes	2.04		Yes	C108			C86			0.192		Yes	0.0572		Yes	15.5	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011		Yes	0.344		Yes	0.756		Yes	C108			C86			0.101		Yes	0.0165		Yes	6.48		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018		Yes	0.578		Yes	1.13		Yes	C108			C86			0.125	EMPC-J	Yes	0.0434		Yes	14.8	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028		Yes	0.6		Yes	1.81		Yes	C108			C86			0.77		Yes	0.0417		Yes	15.5	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	EMPC-J	Yes	0.678		Yes	1.56		Yes	C108			C86			0.225		Yes	0.199		Yes	15.3	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004		Yes	1.1		Yes	2.45		Yes	C108			C86			0.205		Yes	0.0365	U	No	17.5	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001		Yes	0.642		Yes	5.08	J	Yes	C108			C86			0.474		Yes	0.54		Yes	49.1	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002		Yes	0.83		Yes	4.46	J	Yes	C108			C86			0.394		Yes	0.487		Yes	39.4	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003		Yes	0.599		Yes	1.47		Yes	C108			C86			0.169		Yes	0.00361	U	No	12.4	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004		Yes	0.163		Yes	0.373		Yes	C108			C86			0.0396		Yes	0.0425		Yes	2.91		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001		Yes	0.13		Yes	0.92		Yes	C108			C86			0.104		Yes	0.121		Yes	9.61	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002		Yes	0.179		Yes	1.15		Yes	C108			C86			0.102		Yes	0.147		Yes	11.6	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	PCB-129 µg/kg			PCB-130 µg/kg			PCB-131 µg/kg			PCB-132 µg/kg			PCB-133 µg/kg			PCB-134 µg/kg			PCB-135 µg/kg			PCB-136 µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	112	J	Yes	6.18	J	Yes	0.147		Yes	7.34	J	Yes	1.96		Yes	3.32		Yes	9.72	J	Yes	1.46	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	104	J	Yes	5.53	J	Yes	0.149		Yes	5.53	J	Yes	1.85		Yes	2.76		Yes	8.94	J	Yes	1.6	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	106	J	Yes	6.13	J	Yes	0.185		Yes	7.71	J	Yes	2.05		Yes	2.89		Yes	7.04		Yes	1.64	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	176	J	Yes	7.12	J	Yes	0.164		Yes	9.25	J	Yes	2.78		Yes	5.07	J	Yes	16.5	J	Yes	2.84	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	123	J	Yes	7.05	J	Yes	0.301		Yes	9.01	J	Yes	2.38		Yes	3.02		Yes	11.6	J	Yes	2.63	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	58.7	J	Yes	2.84		Yes	0.0935		Yes	4.57	J	Yes	0.876		Yes	1.92		Yes	8.12	J	Yes	1.09	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	73.3	J	Yes	3.6		Yes	0.0684		Yes	4.43	J	Yes	1.15		Yes	1.87		Yes	5.85		Yes	0.901	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	105	J	Yes	5.32	J	Yes	0.128		Yes	5.64	J	Yes	1.6		Yes	2.45		Yes	5.9		Yes	1.08	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	118	J	Yes	5.38	J	Yes	0.157		Yes	5.88	J	Yes	1.86		Yes	1.99		Yes	9.47	J	Yes	1.3	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	28.3	J	Yes	1.86		Yes	0.0467		Yes	2.24		Yes	0.46		Yes	0.899		Yes	3.27		Yes	0.568	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	90.2	J	Yes	5.4	J	Yes	0.0905		Yes	5.73	J	Yes	1.57		Yes	1.85		Yes	7.16		Yes	1.03	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	91.6	J	Yes	5.18	J	Yes	0.159		Yes	5.96	J	Yes	1.61		Yes	2.18		Yes	9.93	J	Yes	1.63	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	144	J	Yes	8.78	J	Yes	0.258		Yes	11	J	Yes	2.73		Yes	3.15		Yes	10.1	J	Yes	2.22	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	219	J	Yes	9.27	J	Yes	0.185		Yes	11.6	J	Yes	3.34		Yes	4.81	J	Yes	21.5	J	Yes	3.81	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	120	J	Yes	7.03	J	Yes	0.3		Yes	9.43	J	Yes	2.27		Yes	2.96		Yes	11.7	J	Yes	2.38	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	80	J	Yes	4.23	J	Yes	0.13		Yes	6.7	J	Yes	1.2		Yes	2.2		Yes	11.6	J	Yes	1.54	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	107	J	Yes	5.73	J	Yes	0.101		Yes	6.65	J	Yes	1.69		Yes	2.2		Yes	9.11	J	Yes	1.28	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	124	J	Yes	6.8	J	Yes	0.148		Yes	6.66	J	Yes	1.9		Yes	2.36		Yes	7.14		Yes	1.2	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	141	J	Yes	6.81	J	Yes	0.19		Yes	7.91	J	Yes	2.17		Yes	2.4		Yes	12.1	J	Yes	1.4	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	45	J	Yes	2.94		Yes	0.0718		Yes	3.52		Yes	0.657		Yes	1.2		Yes	3.93		Yes	0.787	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	71.6	J	Yes	3.36		Yes	0.0563		Yes	2.54		Yes	1.23		Yes	1.5		Yes	3.03		Yes	0.62	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	125	J	Yes	7.54	J	Yes	0.00297	U	No	7.92	J	Yes	2		Yes	3.62	J	Yes	9.06	J	Yes	2.24	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	59.7	J	Yes	3.17		Yes	0.00829	U	No	1.1		Yes	0.973		Yes	1.1		Yes	1.84		Yes	0.253	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	34.9	J	Yes	2.1		Yes	0.00154	U	No	0.441		Yes	0.632		Yes	0.374		Yes	0.258		Yes	0.0254	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	63.3	J	Yes	3.32		Yes	0.0736		Yes	3.17		Yes	0.994		Yes	1.56		Yes	5.71		Yes	0.788	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	121	J	Yes	5.49	J	Yes	0.112		Yes	7.3	J	Yes	1.74		Yes	2.3		Yes	9.62	J	Yes	1.3	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	102	J	Yes	5.82	J	Yes	0.121		Yes	6.61	J	Yes	1.78		Yes	2.65		Yes	8.55	J	Yes	1.26	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	98	J	Yes	5.36	J	Yes	0.154		Yes	5.74	J	Yes	1.73		Yes	2.48		Yes	9.42	J	Yes	1.61	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	124	J	Yes	7.38	J	Yes	0.22		Yes	9.27	J	Yes	2.37		Yes	3.01		Yes	8.49	J	Yes	1.91	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	195	J	Yes	8.08	J	Yes	0.173		Yes	10.3	J	Yes	3.03		Yes	4.95	J	Yes	18.7	J	Yes	3.27	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	121	J	Yes	7.04	J	Yes	0.3		Yes	9.22	J	Yes	2.32		Yes	2.99		Yes	11.7	J	Yes	2.5	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	67.2	J	Yes	3.4	J	Yes	0.108		Yes	5.42	J	Yes	1.01		Yes	2.03		Yes	9.52	J	Yes	1.27	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	88.5	J	Yes	4.56	J	Yes	0.0831		Yes	5.43	J	Yes	1.39		Yes	2.02		Yes	7.32	J	Yes	1.07	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	114	J	Yes	6	J	Yes	0.137		Yes	6.11	J	Yes	1.74		Yes	2.41		Yes	6.47		Yes	1.14	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	127	J	Yes	5.97	J	Yes	0.171		Yes	6.72	J	Yes	1.99		Yes	2.16		Yes	10.6	J	Yes	1.34	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	36.4	J	Yes	2.39		Yes	0.0589		Yes	2.86		Yes	0.556		Yes	1.05		Yes	3.59		Yes	0.675	
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	16.1	J	Yes	0.869		Yes	0.105		Yes	3.26		Yes	0.254		Yes	0.463		Yes	4.39		Yes	0.99	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	5.73		Yes	0.338		Yes	0.0461		Yes	1.3		Yes	0.0974		Yes	0.205		Yes	1.48		Yes	0.373	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	3.07		Yes	0.172		Yes	0.0217		Yes	0.641		Yes	0.0426		Yes	0.0961		Yes	0.733		Yes	0.148	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	3.01		Yes	0.156		Yes	0.015		Yes	0.436		Yes	0.0434		Yes	0.0682		Yes	0.564		Yes	0.0918	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	6.33		Yes	0.345		Yes	0.0452		Yes	1.29		Yes	0.089		Yes	0.196		Yes	1.54		Yes	0.328	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	2.17		Yes	0.111		Yes	0.00984		Yes	0.297		Yes	0.029		Yes	0.0424		Yes	0.371		Yes	0.0535	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.536		Yes	0.0307		Yes	0.00446		Yes	0.13		Yes	0.00681		Yes	0.0194		Yes	0.149		Yes	0.0378	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	48.3	J	Yes	1.68		Yes	0.0508		Yes	1.13		Yes	0.763		Yes	0.392		Yes	7.75	J	Yes	0.442	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	13.5	J	Yes	0.84		Yes	0.099		Yes	2.95		Yes	0.252		Yes	0.515		Yes	3.32		Yes	0.717	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	32.3	J	Yes	2.09		Yes	0.365		Yes	9.39	J	Yes	0.55		Yes	1.71		Yes	10.1	J	Yes	2.86	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	16.1	J	Yes	1.15		Yes	0.156		Yes	3.94	J	Yes	0.295		Yes	0.814		Yes	4.96		Yes	1.13	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	38.3	J	Yes	1.94		Yes	0.199		Yes	5.3	J	Yes	0.528		Yes	0.98		Yes	6.62		Yes	1.36	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	16.3	J	Yes	0.97		Yes	0.115		Yes	3.23		Yes	0.254		Yes	0.622		Yes	4.06		Yes	0.778	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	118	J	Yes	6.76	J	Yes	1.3		Yes	26.9	J	Yes	2.19		Yes	4.82	J	Yes	34.8	J	Yes	9.62	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	55.4	J	Yes	3.46		Yes	0.597		Yes	14.2	J	Yes	1.01		Yes	2.88		Yes	17.3	J	Yes	5.31	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	105	J	Yes	5.62	J	Yes	0.817		Yes	16.3	J	Yes	1.68		Yes	3.79		Yes	25.1	J	Yes	6.16	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	144	J	Yes	7.07	J	Yes	1.2		Yes	24.9	J	Yes	1.92		Yes	4.61	J	Yes	28.7	J	Yes	7.72	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	140	J	Yes	6.65	J	Yes	1.28		Yes	27.1	J	Yes	2.21		Yes	5.4	J	Yes	33.9	J	Yes	8.73	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	49.9	J	Yes	2.69		Yes	0.367		Yes	7.83	J	Yes	0.798		Yes	1.6		Yes	8.97	J	Yes	2.41	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	74.8	J	Yes	3.99	J	Yes	0.647		Yes	14.8	J	Yes	1.22		Yes	2.58		Yes	17.4	J	Yes	4.8	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	139	J	Yes	7.18	J	Yes	1.04		Yes	20.7	J	Yes	1.98		Yes	4.07	J	Yes	25.3	J	Yes	7.05	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	29.2	J	Yes	1.61		Yes	0.264		Yes	6.55	J	Yes	0.463		Yes	1.14		Yes	7.63		Yes	2.26	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	32.5	J	Yes	1.67	J	Yes	0.279	J	Yes	6.26	J	Yes	0.515	J	Yes	1.14	J	Yes	6.77	J	Yes	1.98	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	50.9	J	Yes	2.44		Yes	0.326		Yes	7.01	J	Yes	0.741		Yes	1.48		Yes	9.06	J	Yes	2.1	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	88.5	J	Yes	4.59	J	Yes	0.588		Yes	12.2	J	Yes	1.32		Yes	2.46		Yes	17.9	J	Yes	4.19	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	69.3	J	Yes	3.36		Yes	0.476		Yes	10.7	J	Yes	0.841		Yes	1.79		Yes	11.5	J	Yes	2.94	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	54.1	J	Yes	2.67		Yes	0.402		Yes	9.12	J	Yes	0.717		Yes	1.63		Yes	10.5	J	Yes	2.67	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	103	J	Yes	5.23	J	Yes	0.839		Yes	18.1	J	Yes	1.24		Yes	3.28		Yes	19.7	J	Yes	5.69	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	147	J	Yes	8.03	J	Yes	1.38		Yes	27.6	J	Yes	2.56		Yes	6.01	J	Yes	36	J	Yes	9.39	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	46.9	J	Yes	2.95		Yes	0.506		Yes	12.6	J	Yes	0.891		Yes	2.21		Yes	14.7	J	Yes	3.78	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	130	J	Yes	6.82	J	Yes	1.26		Yes	24.6	J	Yes	2.24		Yes	3.88	J	Yes	32.5	J	Yes	7.6	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	35.3	J	Yes	1.98		Yes	0.348		Yes	8.61	J	Yes	0.637		Yes	1.47		Yes	10.4	J	Yes	3.38	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	152	J	Yes	8.2	J	Yes	1.38		Yes	27.6	J	Yes	2.4		Yes	4.78	J	Yes	34.3	J	Yes	8.84	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	103	J	Yes	5.79	J	Yes	1.07		Yes	22.7	J	Yes	1.85		Yes	4.04	J	Yes	28.7	J	Yes	7.93	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	47.3	J	Yes	2.88		Yes	0.493		Yes	11.8	J	Yes	0.84		Yes	2.34		Yes	14.3	J	Yes	4.36	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	99.8	J	Yes	5.3	J	Yes	0.745		Yes	15	J	Yes	1.57		Yes	3.37		Yes	22.8	J	Yes	5.54	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	121	J	Yes	5.92	J	Yes	0.976		Yes	20.5	J	Yes	1.59		Yes	3.74	J	Yes	23.4	J	Yes	6.24	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	112	J	Yes	5.36	J	Yes	0.995		Yes	21.3	J	Yes	1.72		Yes	4.17	J	Yes	26.3	J	Yes	6.76	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	132	J	Yes	7.18	J	Yes	0.332		Yes	11.3	J	Yes	1.8		Yes	1.17		Yes	18.9	J	Yes	2.37	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	298	J	Yes	15	J	Yes	0.274		Yes	8.7	J	Yes	5.71	J	Yes	2.39		Yes	22.7	J	Yes	0.672	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	264	J	Yes	11.8	J	Yes	0.7		Yes	16.8	J	Yes	4.53	J	Yes	3.35		Yes	25.7	J	Yes	1.88	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	104	J	Yes	4.39	J	Yes	0.345		Yes	4.15	J	Yes	1.41		Yes	1.1		Yes	16.2	J	Yes	0.585	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	23.7	J	Yes	1.22		Yes	0.054		Yes	2.02		Yes	0.325		Yes	0.17		Yes	3.3		Yes	0.375	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	81.4	J	Yes	2.97		Yes	0.0568		Yes	1.79		Yes	1.09		Yes	0.48		Yes	4.45		Yes	0.116	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	93.3	J	Yes	3.71		Yes	0.217		Yes	5.37	J	Yes	1.4		Yes	1.07		Yes	7.71		Yes	0.483	

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-137			PCB-138			PCB-139			PCB-140			PCB-141			PCB-142			PCB-143			
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	Yes	4.08	J	Yes	C129			1.51		Yes	C139			15.8	J	Yes	0.00153	U	No	0.00147	U	No	0.387
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	Yes	4.42	J	Yes	C129			1.44		Yes	C139			14	J	Yes	0.00192	U	No	0.00184	U	No	0.407
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	Yes	3.12		Yes	C129			1.5		Yes	C139			14.8	J	Yes	0.00194	U	No	0.00186	U	No	0.515
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	Yes	3.22		Yes	C129			1.48		Yes	C139			27.3	J	Yes	0.00218	U	No	0.00209	U	No	0.406
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	Yes	4.39	J	Yes	C129			1.87		Yes	C139			16.1	J	Yes	0.00233	U	No	0.00214	U	No	0.996
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	Yes	1.59		Yes	C129			0.726		Yes	C139			7.04	J	Yes	0.00247	U	No	0.00237	U	No	0.236
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	Yes	2.34		Yes	C129			0.889		Yes	C139			9.69	J	Yes	0.0017	U	No	0.00163	U	No	0.211
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	Yes	2.8		Yes	C129			1.3		Yes	C139			13.2	J	Yes	0.00235	U	No	0.00225	U	No	0.282
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	Yes	4.63	J	Yes	C129			1.58		Yes	C139			15	J	Yes	0.00143	U	No	0.00131	U	No	0.6
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	Yes	1.34		Yes	C129			0.378		Yes	C139			4.72	J	Yes	0.00124	U	No	0.00114	U	No	0.493
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	Yes	3.3		Yes	C129			1.2		Yes	C139			12	J	Yes	0.00115	U	No	0.0011	U	No	0.223
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	Yes	4.17	J	Yes	C129			1.29		Yes	C139			12.6	J	Yes	0.00234	U	No	0.00224	U	No	0.454
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	Yes	4.57	J	Yes	C129			2.08		Yes	C139			19.5	J	Yes	0.00225	U	No	0.00215	U	No	0.762
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	Yes	4.24	J	Yes	C129			1.78		Yes	C139			32.7	J	Yes	0.00268	U	No	0.00256	U	No	0.498
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	Yes	4.18	J	Yes	C129			1.81		Yes	C139			15.4	J	Yes	0.0034	U	No	0.0031	U	No	1.02
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	Yes	2.07		Yes	C129			1.04		Yes	C139			9.86	J	Yes	0.00262	U	No	0.0025	U	No	0.321
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	Yes	3.79		Yes	C129			1.34		Yes	C139			14.4	J	Yes	0.00185	U	No	0.00177	U	No	0.317
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	Yes	3.38		Yes	C129			1.57		Yes	C139			15.8	J	Yes	0.0037	U	No	0.00353	U	No	0.334
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	Yes	5.49	J	Yes	C129			1.86		Yes	C139			18.4	J	Yes	0.00205	U	No	0.00187	U	No	0.767
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	Yes	2.05		Yes	C129			0.519		Yes	C139			7.49	J	Yes	0.00188	U	No	0.00171	U	No	0.578
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	Yes	2.01		Yes	C129			0.902		Yes	C139			8.68	J	Yes	0.00215	U	No	0.00198	U	No	0.173
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	Yes	3.66	J	Yes	C129			1.78		Yes	C139			10	J	Yes	0.00291	U	No	0.00268	U	No	0.54
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	Yes	1.38		Yes	C129			0.704		Yes	C139			6.29	J	Yes	0.00839	U	No	0.00799	U	No	0.112
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	Yes	0.704		Yes	C129			0.397		Yes	C139			3.4		Yes	0.0015	U	No	0.00138	U	No	0.00342
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	Yes	2.71		Yes	C129			0.851		Yes	C139			7.28	J	Yes	0.00176	U	No	0.00161	U	No	0.144
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	Yes	3.72	J	Yes	C129			1.34		Yes	C139			13.9	J	Yes	0.00236	U	No	0.00217	U	No	0.292
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	Yes	3.72	J	Yes	C129			1.37		Yes	C139			14.1	J	Yes	0.000678	U	No	0.000651	U	No	0.312
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	Yes	4.3	J	Yes	C129			1.37		Yes	C139			13.3	J	Yes	0.00106	U	No	0.00102	U	No	0.43
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	Yes	3.81	J	Yes	C129			1.77		Yes	C139			17	J	Yes	0.00104	U	No	0.000999	U	No	0.632
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	Yes	3.68	J	Yes	C129			1.61		Yes	C139			29.7	J	Yes	0.0012	U	No	0.00115	U	No	0.447
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	Yes	4.28	J	Yes	C129			1.84		Yes	C139			15.7	J	Yes	0.00143	U	No	0.00131	U	No	1.01
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	Yes	1.78		Yes	C129			0.852		Yes	C139			8.17	J	Yes	0.00127	U	No	0.00121	U	No	0.27
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	Yes	2.99		Yes	C129			1.09		Yes	C139			11.8	J	Yes	0.000884	U	No	0.000847	U	No	0.259
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	Yes	3.07		Yes	C129			1.42		Yes	C139			14.4	J	Yes	0.00148	U	No	0.00142	U	No	0.306
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	Yes	4.99	J	Yes	C129			1.7		Yes	C139			16.4	J	Yes	0.000843	U	No	0.000771	U	No	0.669
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	Yes	1.69		Yes	C129			0.447		Yes	C139			6.07	J	Yes	0.000776	U	No	0.000709	U	No	0.534
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	Yes	0.597		Yes	C129			0.228		Yes	C139			1.94		Yes	0.0016	U	No	0.0153		Yes	0.557
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	Yes	0.223		Yes	C129			0.0661		Yes	C139			0.99		Yes	0.000872	EMPC-J	Yes	0.00839		Yes	0.132
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	Yes	0.115		Yes	C129			0.0283		Yes	C139			0.476		Yes	0.000668	J	Yes	0.00136	EMPC-J	Yes	0.0548
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	Yes	0.117		Yes	C129			0.0253		Yes	C139			0.474		Yes	0.000367	U	No	0.00373		Yes	0.0535
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	Yes	0.246		Yes	C129			0.062		Yes	C139			1.04		Yes	0.00106	EMPC-J	Yes	0.00548		Yes	0.139
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	Yes	0.0908		Yes	C129			0.0164		Yes	C139			0.33		Yes	0.000407	U	No	0.000387	U	No	0.0355
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	Yes	0.0175		Yes	C129			0.00469		Yes	C139			0.0851		Yes	0.000319	U	No	0.000767	J	Yes	0.0114
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes	2.2		Yes	C129			0.689		Yes	C139			6.6	J	Yes	0.00282	U	No	0.00248	U	No	0.999
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	Yes	0.648		Yes	C129			0.152		Yes	C139			2.21		Yes	0.00101	U	No	0.0209		Yes	0.282
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes	1.55		Yes	C129			0.435		Yes	C139			5.75	J	Yes	0.00226	U	No	0.002	U	No	0.934
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes	0.89		Yes	C129			0.202		Yes	C139			2.65		Yes	0.00335	U	No	0.00295	U	No	0.438
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes	1.63		Yes	C129			0.479		Yes	C139			4.68	J	Yes	0.00248	U	No	0.00219	U	No	0.922
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	Yes	0.72		Yes	C129			0.167		Yes	C139			2.45		Yes	0.00291	EMPC-J	Yes	0.0014	U	No	0.334
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes	4.81	J	Yes	C129			1.53		Yes	C139			17.7	J	Yes	0.011	U	No	0.00992	U	No	4.8
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes	2.35		Yes	C129			0.98		Yes	C139			9.04	J	Yes	0.0129		Yes	0.00463	U	No	2.37
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes	3.76		Yes	C129			0.981		Yes	C139			13.6	J	Yes	0.00919	U	No	0.00827	U	No	3.47
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	Yes	3.9	J	Yes	C129			1.23		Yes	C139			22.7	J	Yes	0.0146	U	No	0.0132	U	No	4.99
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes	5.02	J	Yes	C129			1.41		Yes	C139			19.4	J	Yes	0.00952	U	No	0.00857	U	No	5.37
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes	2.05		Yes	C129			0.475		Yes	C139			6.52	J	Yes	0.000581	U	No	0.0295		Yes	1.49
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes	3.27		Yes	C129			0.836		Yes	C139			10.5	J	Yes	0.0133		Yes	0.0835		Yes	2.53
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes	6.65	J	Yes	C129			1.94		Yes	C139			17.3	J	Yes	0.0145		Yes	0.0982		Yes	4.13
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes	1.08		Yes	C129			0.447		Yes	C139			4.29	J	Yes	0.00483	EMPC-J	Yes	0.0507		Yes	1.06
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes	1.4		Yes	C129			0.496	J	Yes	C139			4.72	J	Yes	0.00702	J	Yes	0.0394	J	Yes	1.05
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes	2.07		Yes	C129			0.414		Yes	C139			6.37	J	Yes	0.00062	U	No	0.0301		Yes	1.54
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes	3.01		Yes	C129			0.751		Yes	C139			10.2	J	Yes	0.0123		Yes	0.0271		Yes	2.54
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes	2.8		Yes	C129			0.541		Yes	C139			9.58	J	Yes	0.0113		Yes	0.0273		Yes	2.07
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes	2.21		Yes	C129			0.453		Yes	C139			7.62	J	Yes	0.0107		Yes	0.000868	U	No	1.73
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes	4.01	J	Yes	C129			1.37		Yes	C139			12.2	J	Yes	0.0217		Yes	0.0887		Yes	3.28
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes	6.34	J	Yes	C129			2.43		Yes	C139			19.5	J	Yes	0.00892	U	No	0.00803	U	No	5.25
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	Yes	2.17		Yes	C129			0.836		Yes	C139			7.83	J	Yes	0.0039	U	No	0.0773		Yes	1.88
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes	5.44	J	Yes	C129			2.05		Yes	C139			19.6	J	Yes	0.0125	U	No	0.709		Yes	4.78
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes	1.4		Yes	C129			0.587		Yes	C139			5.45	J	Yes	0.00492	U	No	0.0708		Yes	1.3
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes	5.32	J	Yes	C129			2.26		Yes	C139			22.7	J	Yes	0.0104	U	No	0.413		Yes	5.33
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes	4.27	J	Yes	C129			1.29		Yes	C139			15.2	J	Yes	0.00823		Yes	0.0324		Yes	4.01
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes	1.96		Yes	C129			0.814		Yes	C139			7.56	J	Yes	0.0104	EMPC-J	Yes	0.0174		Yes	1.96
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes	3.52		Yes	C129			0.909		Yes	C139			12.5	J	Yes	0.00701		Yes	0.0113		Yes	3.18
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes	3.56	J	Yes	C129			1.02		Yes	C139			18.6	J	Yes	0.00854		Yes	0.013		Yes	4.08
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes	4.11	J	Yes	C129			1.1		Yes	C139			15.6	J	Yes	0.00669		Yes	0.00303	U	No	4.19
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes	6.44	J	Yes	C129			1.85		Yes	C139			16.7	J	Yes	0.00324	U	No	0.113		Yes	3.45
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes	14.5	J	Yes	C129			3.32		Yes	C139			28	J	Yes	0.0029	U	No	0.0625		Yes	2.36
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	Yes	11	J	Yes	C129			3.1		Yes	C139			23.3	J	Yes	0.0201		Yes	0.0969		Yes	2.83
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes	4.02	J	Yes	C129			1.25		Yes	C139			12.2	J	Yes	0.00324	U	No	0.0439		Yes	1.63
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	Yes	0.977		Yes	C129			0.323		Yes	C139			3.17		Yes	0.0035		Yes	0.0183		Yes	0.589
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	Yes	3		Yes	C129			0.65		Yes	C139			5.67	J	Yes	0.00308		Yes	0.01		Yes	0.459
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	Yes	3.43		Yes	C129			0.967		Yes	C139			7.18	J	Yes	0.000896	U	No	0.000825	U	No	0.847

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-144		PCB-145			PCB-146			PCB-147			PCB-148			PCB-149			PCB-150			PCB-151		
					µg/kg		µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01		Yes	0.000858	U	No	18	J	Yes	35	J	Yes	0.203		Yes	C147			0.000825	U	No	C135		
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02		Yes	0.00134	U	No	16.9	J	Yes	32.5	J	Yes	0.198		Yes	C147			0.00586		Yes	C135		
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03		Yes	0.00108	U	No	17.9	J	Yes	36	J	Yes	0.235		Yes	C147			0.00328		Yes	C135		
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04		Yes	0.00141	U	No	29.8	J	Yes	76.3	J	Yes	0.298		Yes	C147			0.00136	U	No	C135		
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008		Yes	0.00169	U	No	22.7	J	Yes	48.7	J	Yes	0.275		Yes	C147			0.0016	U	No	C135		
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05		Yes	0.0017	U	No	8.78	J	Yes	30.8	J	Yes	0.0622		Yes	C147			0.00164	U	No	C135		
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002		Yes	0.00112	U	No	11.5	J	Yes	22.9	J	Yes	0.0741		Yes	C147			0.00107	U	No	C135		
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006		Yes	0.00144	U	No	17.3	J	Yes	37.2	J	Yes	0.109		Yes	C147			0.00139	U	No	C135		
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007		Yes	0.000963	U	No	19.5	J	Yes	36.7	J	Yes	0.129		Yes	C147			0.000909	U	No	C135		
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026		Yes	0.000794	U	No	4.26	J	Yes	13.3	J	Yes	0.0135		Yes	C147			0.000749	U	No	C135		
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01		Yes	0.000897	U	No	14.5	J	Yes	26	J	Yes	0.141		Yes	C147			0.000842	U	No	C135		
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02		Yes	0.00169	U	No	14.9	J	Yes	32.3	J	Yes	0.187		Yes	C147			0.0058		Yes	C135		
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03		Yes	0.00162	U	No	24	J	Yes	49.8	J	Yes	0.308		Yes	C147			0.00467		Yes	C135		
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04		Yes	0.00194	U	No	36.5	J	Yes	97.3	J	Yes	0.35		Yes	C147			0.00364	EMPC-J	Yes	C135		
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008		Yes	0.00222	U	No	20.8	J	Yes	47.2	J	Yes	0.268		Yes	C147			0.00677	EMPC-J	Yes	C135		
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05		Yes	0.00194	U	No	11.9	J	Yes	40.6	J	Yes	0.0778		Yes	C147			0.00182	U	No	C135		
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002		Yes	0.00126	U	No	17	J	Yes	33.3	J	Yes	0.0947		Yes	C147			0.00211		Yes	C135		
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006		Yes	0.00277	U	No	20.6	J	Yes	43.2	J	Yes	0.122		Yes	C147			0.0026	U	No	C135		
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007		Yes	0.0012	U	No	22.1	J	Yes	44.7	J	Yes	0.156		Yes	C147			0.0027		Yes	C135		
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026		Yes	0.00149	U	No	5.98	J	Yes	15.4	J	Yes	0.017		Yes	C147			0.00143	U	No	C135		
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011		Yes	0.0014	U	No	12	J	Yes	19.2	J	Yes	0.107		Yes	C147			0.00387		Yes	C135		
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019		Yes	0.0021	U	No	20.1	J	Yes	45.3	J	Yes	0.17		Yes	C147			0.00198	U	No	C135		
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001		Yes	0.00527	U	No	9.41	J	Yes	17.7	J	Yes	0.0365		Yes	C147			0.00495	U	No	C135		
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	EMPC-J	Yes	0.00107	U	No	6.19	J	Yes	4.46		Yes	0.021		Yes	C147			0.00101	U	No	C135		
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005		Yes	0.00126	U	No	9.74	J	Yes	17.7	J	Yes	0.0764		Yes	C147			0.00119	U	No	C135		
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022		Yes	0.00155	U	No	18.3	J	Yes	36.5	J	Yes	0.117		Yes	C147			0.00147	U	No	C135		
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01		Yes	0.000438	U	No	16.4	J	Yes	30.9	J	Yes	0.175		Yes	C147			0.000416	U	No	C135		
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02		Yes	0.000754	U	No	15.9	J	Yes	32.4	J	Yes	0.193		Yes	C147			0.00583		Yes	C135		
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03		Yes	0.000668	U	No	20.8	J	Yes	42.5	J	Yes	0.27		Yes	C147			0.00394		Yes	C135		
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04		Yes	0.000824	U	No	32.8	J	Yes	85.7	J	Yes	0.321		Yes	C147			0.00201	EMPC-J	Yes	C135		
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008		Yes	0.000978	U	No	21.7	J	Yes	47.9	J	Yes	0.271		Yes	C147			0.00379	EMPC-J	Yes	C135		
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05		Yes	0.000898	U	No	10	J	Yes	34.7	J	Yes	0.0685		Yes	C147			0.000856	U	No	C135		
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002		Yes	0.000592	U	No	14	J	Yes	27.6	J	Yes	0.0834		Yes	C147			0.00124		Yes	C135		
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006		Yes	0.00103	U	No	18.8	J	Yes	40	J	Yes	0.115		Yes	C147			0.000973	U	No	C135		
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007		Yes	0.00053	U	No	20.6	J	Yes	40	J	Yes	0.14		Yes	C147			0.00138		Yes	C135		
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026		Yes	0.000567	U	No	5.1	J	Yes	14.3	J	Yes	0.0152		Yes	C147			0.000541	U	No	C135		
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01		Yes	0.00258		Yes	2.5		Yes	10.3	J	Yes	0.0285		Yes	C147			0.0218		Yes	C135		
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013		Yes	0.000644	J	Yes	0.979		Yes	2.7		Yes	0.0149		Yes	C147			0.00773		Yes	C135		
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044		Yes	0.000209	U	No	0.498		Yes	1.43		Yes	0.00554		Yes	C147			0.00188		Yes	C135		
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061		Yes	0.000226	U	No	0.496		Yes	1.04		Yes	0.00584		Yes	C147			0.00174		Yes	C135		
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007		Yes	0.000278	U	No	1.07		Yes	3.29		Yes	0.00839		Yes	C147			0.00466		Yes	C135		
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058		Yes	0.000259	U	No	0.374		Yes	0.708		Yes	0.00283		Yes	C147			0.000538	EMPC-J	Yes	C135		
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066		Yes	0.000204	U	No	0.077		Yes	0.263		Yes	0.000507	EMPC-J	Yes	C147			0.000375	J	Yes	C135		
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035		Yes	0.00194	U	No	8.44	J	Yes	15.4	J	Yes	0.114		Yes	C147			0.0203		Yes	C135		
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055		Yes	0.00065	U	No	2.53		Yes	5.41		Yes	0.0414		Yes	C147			0.017		Yes	C135		
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057		Yes	0.00154	U	No	5.67	J	Yes	17.4	J	Yes	0.0665		Yes	C147			0.0461		Yes	C135		
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004		Yes	0.00224	U	No	2.85		Yes	8.12	J	Yes	0.0269		Yes	C147			0.0165		Yes	C135		
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006		Yes	0.00174	U	No	6.05	J	Yes	18	J	Yes	0.0432		Yes	C147			0.0253		Yes	C135		
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052		Yes	0.00115	U	No	2.69		Yes	6.83		Yes	0.0244		Yes	C147			0.0122		Yes	C135		
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	J	Yes	0.00654	U	No	19.6	J	Yes	69.1	J	Yes	0.357		Yes	C147			0.225		Yes	C135		
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011		Yes	0.0171		Yes	9.71	J	Yes	40.2	J	Yes	0.17		Yes	C147			0.156		Yes	C135		
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018		Yes	0.00749	U	No	17.1	J	Yes	54.7	J	Yes	0.202		Yes	C147			0.0835		Yes	C135		
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	J	Yes	0.00835	U	No	22.1	J	Yes	76.2	J	Yes	0.135		Yes	C147			0.0491		Yes	C135		
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	J	Yes	0.00828	U	No	23.8	J	Yes	78.5	J	Yes	0.175		Yes	C147			0.0618		Yes	C135		
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002		Yes	0.00236		Yes	7.99	J	Yes	23.4	J	Yes	0.0952		Yes	C147			0.0374		Yes	C135		
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008		Yes	0.00826		Yes	11.6	J	Yes	41.9	J	Yes	0.171		Yes	C147			0.0932		Yes	C135		
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	J	Yes	0.0198		Yes	20.3	J	Yes	58.3	J	Yes	0.219		Yes	C147			0.213		Yes	C135		
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011		Yes	0.00602		Yes	4.51	J	Yes	19.3	J	Yes	0.0707		Yes	C147			0.0605		Yes	C135		
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	J	Yes	0.00724		Yes	5.23	J	Yes	17.5	J	Yes	0.0731	J	Yes	C147			0.0605	J	Yes	C135		
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014		Yes	0.00222	EMPC-J	Yes	7.91	J	Yes	23.5	J	Yes	0.0656		Yes	C147			0.0253		Yes	C135		
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018		Yes	0.00244	EMPC-J	Yes	13.4	J	Yes	42.1	J	Yes	0.142		Yes	C147			0.0545		Yes	C135		
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028		Yes	0.00235		Yes	9.91	J	Yes	33	J	Yes	0.0537		Yes	C147			0.0176		Yes	C135		
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029		Yes	0.000646	U	No	7.99	J	Yes	28.2	J	Yes	0.0517		Yes	C147			0.0156		Yes	C135		
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030		Yes	0.0175		Yes	13.9	J	Yes	54	J	Yes	0.0898		Yes	C147			0.0826		Yes	C135		
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	J	Yes	0.00769	U	No	24.6	J	Yes	80	J	Yes	0.47		Yes	C147			0.395		Yes	C135		
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003		Yes	0.0126		Yes	8.08	J	Yes	27.9	J	Yes	0.163		Yes	C147			0.123		Yes	C135		
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	J	Yes	0.0266		Yes	0.011	U	No	67.1	J	Yes	0.361		Yes	C147			0.294		Yes	C135		
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007		Yes	0.00391	U	No	5.5	J	Yes	22.3	J	Yes	0.108		Yes	C147			0.111		Yes	C135		
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	J	Yes	0.0273		Yes	23.7	J	Yes	70	J	Yes	0.373		Yes	C147			0.298		Yes	C135		
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	J	Yes	0.00502		Yes	16.8	J	Yes	59.6	J	Yes	0.292		Yes	C147			0.179		Yes	C135		
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011		Yes	0.0137		Yes	8.09	J	Yes	33.7	J	Yes	0.139		Yes	C147			0.126		Yes	C135		
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018		Yes	0.00334	EMPC-J	Yes	15.9	J	Yes	50.7	J	Yes	0.183		Yes	C147			0.0744		Yes	C135		
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	J	Yes	0.00361		Yes	18.3	J	Yes	62.8	J	Yes	0.11		Yes	C147			0.0393		Yes	C135		
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	J	Yes	0.0029	U	No	18.7	J	Yes	62.2	J	Yes	0.135		Yes	C147			0.0468		Yes	C135		
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004		Yes	0.00228	U	No	22.2	J	Yes	53.2	J	Yes	0.172		Yes	C147			0.0723		Yes	C135		
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001		Yes	0.00169	U	No	66.7	J	Yes	47	J	Yes	0.337		Yes	C147			0.0519		Yes	C135		
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002		Yes	0.0043	U	No	51.4	J	Yes	66.2	J	Yes	0.275		Yes	C147			0.0983		Yes	C135		
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003		Yes	0.00269	U	No	16.1	J	Yes	38.8	J	Yes	0.111		Yes	C147			0.0469		Yes	C135		
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004		Yes	0.00092	J	Yes	3.77		Yes	9.88	J	Yes	0.0277		Yes	C147			0.0101		Yes	C135		
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001		Yes	0.000551	U	No	13.9	J	Yes	10.4	J	Yes	0.0615		Yes	C147			0.0084		Yes	C135		
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002		Yes	0.00124		Yes	16.1	J	Yes	21.7	J	Yes	0.0804		Yes	C147			0.0229		Yes	C135		

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-152			PCB-153			PCB-154			PCB-155			PCB-156			PCB-157			PCB-158			PCB-159	
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg	
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.000801	U	No	87.8	J	Yes	1.08		Yes	0.178		Yes	12	J	Yes	C156			11.1	J	Yes	0.427	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.00848		Yes	81.1	J	Yes	1.21		Yes	0.173		Yes	11.5	J	Yes	C156			10.1	J	Yes	0.374	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	0.00485		Yes	82	J	Yes	1.2		Yes	0.198		Yes	10.1	J	Yes	C156			10.6	J	Yes	0.415	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	0.00132	U	No	159	J	Yes	2.12		Yes	0.691		Yes	13.1	J	Yes	C156			14.4	J	Yes	1.23	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	0.00157	U	No	99.5	J	Yes	1.37		Yes	0.199		Yes	12.4	J	Yes	C156			11.8	J	Yes	0.573	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	0.00159	U	No	38.2	J	Yes	0.445		Yes	0.103		Yes	4.68		Yes	C156			4.7	J	Yes	0.255	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.00104	U	No	54.3	J	Yes	0.525		Yes	0.123		Yes	7.06		Yes	C156			6.73	J	Yes	0.299	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.00135	U	No	88.4	J	Yes	0.72		Yes	0.214		Yes	9.9	J	Yes	C156			9.85	J	Yes	0.433	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.000895	U	No	96.6	J	Yes	0.901		Yes	0.216		Yes	13.8	J	Yes	C156			11	J	Yes	0.476	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	0.000738	U	No	20.6	J	Yes	0.166		Yes	0.00724		Yes	3.48		Yes	C156			2.33		Yes	0.212	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.000839	U	No	70.6	J	Yes	0.667		Yes	0.138		Yes	9.23	J	Yes	C156			9.24	J	Yes	0.303	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.00759		Yes	71.4	J	Yes	0.995		Yes	0.132		Yes	8.9	J	Yes	C156			8.74	J	Yes	0.305	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	0.0058		Yes	110	J	Yes	1.39		Yes	0.259		Yes	13.1	J	Yes	C156			14.2	J	Yes	0.542	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	0.00705		Yes	201	J	Yes	2.38		Yes	0.908		Yes	15.6	J	Yes	C156			17.7	J	Yes	1.41	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.00638		Yes	93.8	J	Yes	1.19		Yes	0.186		Yes	12.3	J	Yes	C156			11.3	J	Yes	0.548	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.00181	U	No	52.5	J	Yes	0.509		Yes	0.15		Yes	6.9		Yes	C156			6.65	J	Yes	0.00623	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	0.00229		Yes	79.9	J	Yes	0.708		Yes	0.174		Yes	10.5	J	Yes	C156			10.1	J	Yes	0.434	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.00259	U	No	105	J	Yes	0.758		Yes	0.236		Yes	11.1	J	Yes	C156			12	J	Yes	0.492	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.00437		Yes	111	J	Yes	1.04		Yes	0.24		Yes	15.9	J	Yes	C156			13.3	J	Yes	0.521	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	0.00141	U	No	29.8	J	Yes	0.191		Yes	0.0113		Yes	5.06		Yes	C156			3.9		Yes	0.273	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.00233	EMPC-J	Yes	56	J	Yes	0.593		Yes	0.109		Yes	6.52		Yes	C156			6.72	J	Yes	0.198	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	0.00195	U	No	104	J	Yes	0.773		Yes	0.311		Yes	11.8	J	Yes	C156			12.5	J	Yes	0.332	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.00501	U	No	46.8	J	Yes	0.362		Yes	0.0992		Yes	5.11		Yes	C156			5.68	J	Yes	0.013	U
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.000997	U	No	30	J	Yes	0.179		Yes	0.079		Yes	3.34		Yes	C156			3.62		Yes	0.0473	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.00118	U	No	52.7	J	Yes	0.479		Yes	0.133		Yes	7.25		Yes	C156			6.16	J	Yes	0.217	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	0.00145	U	No	88	J	Yes	0.71		Yes	0.184		Yes	11.4	J	Yes	C156			11.1	J	Yes	0.457	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.000409	U	No	80	J	Yes	0.892		Yes	0.16		Yes	10.7	J	Yes	C156			10.3	J	Yes	0.37	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.00805		Yes	76.4	J	Yes	1.11		Yes	0.153		Yes	10.3	J	Yes	C156			9.45	J	Yes	0.341	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	0.0053		Yes	95.2	J	Yes	1.29		Yes	0.227		Yes	11.5	J	Yes	C156			12.3	J	Yes	0.475	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	0.00352		Yes	178	J	Yes	2.24		Yes	0.788		Yes	14.2	J	Yes	C156			15.9	J	Yes	1.31	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	0.00359		Yes	96.6	J	Yes	1.28		Yes	0.192		Yes	12.3	J	Yes	C156			11.5	J	Yes	0.56	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	0.000839	U	No	43.9	J	Yes	0.471		Yes	0.122		Yes	5.57		Yes	C156			5.48	J	Yes	0.154	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.00132		Yes	65.8	J	Yes	0.607		Yes	0.146		Yes	8.61	J	Yes	C156			8.25	J	Yes	0.36	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.00096	U	No	96	J	Yes	0.737		Yes	0.224		Yes	10.5	J	Yes	C156			10.8	J	Yes	0.46	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.00207		Yes	103	J	Yes	0.958		Yes	0.226		Yes	14.7	J	Yes	C156			11.9	J	Yes	0.495	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.000533	U	No	25.1	J	Yes	0.178		Yes	0.00922		Yes	4.25		Yes	C156			3.1		Yes	0.242	
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	0.00726	EMPC-J	Yes	13.7	J	Yes	0.169		Yes	0.0157		Yes	1.28		Yes	C156			1.46		Yes	0.125	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.00493		Yes	3		Yes	0.0678		Yes	0.00577		Yes	0.547		Yes	C156			0.524		Yes	0.0567	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.00154		Yes	0.932		Yes	0.0223		Yes	0.00256		Yes	0.301		Yes	C156			0.263		Yes	0.0245	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.00151		Yes	0.989		Yes	0.0234		Yes	0.00229		Yes	0.294		Yes	C156			0.274		Yes	0.0229	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.00358		Yes	3.29		Yes	0.0473		Yes	0.00517		Yes	0.594		Yes	C156			0.547		Yes	0.0626	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.000611	J	Yes	0.511		Yes	0.0123		Yes	0.00209		Yes	0.224		Yes	C156			0.194		Yes	0.0158	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.000315	J	Yes	0.199		Yes	0.00337		Yes	0.000506	EMPC-J	Yes	0.047		Yes	C156			0.0455		Yes	0.00425	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	0.0341		Yes	36.8	J	Yes	0.627		Yes	0.0521		Yes	4.91		Yes	C156			4.57	J	Yes	0.288	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	0.0117		Yes	4.3		Yes	0.158		Yes	0.0124		Yes	1.51		Yes	C156			1.23		Yes	0.131	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	0.0351		Yes	16.8	J	Yes	0.356		Yes	0.0148		Yes	2.89		Yes	C156			2.87		Yes	0.328	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	0.0139		Yes	9.4	J	Yes	0.151		Yes	0.0254		Yes	1.92		Yes	C156			1.77		Yes	0.161	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.013		Yes	27.6	J	Yes	0.296		Yes	0.0597		Yes	4.2		Yes	C156			3.56		Yes	0.222	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	0.00994		Yes	6.89		Yes	0.123		Yes	0.0198		Yes	1.66		Yes	C156			1.46		Yes	0.133	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	0.0555		Yes	93.5	J	Yes	1.5		Yes	0.0928		Yes	13.8	J	Yes	C156			11	J	Yes	0.961	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	0.0958		Yes	50	J	Yes	0.884		Yes	0.0788		Yes	5.89		Yes	C156			5.44	J	Yes	0.566	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	0.0193		Yes	86.5	J	Yes	0.645		Yes	0.0534		Yes	12.1	J	Yes	C156			9.31	J	Yes	0.913	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	0.00781	U	No	131	J	Yes	0.542		Yes	0.0544		Yes	16.2	J	Yes	C156			13.8	J	Yes	1.01	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	0.00774	U	No	123	J	Yes	0.664		Yes	0.0601		Yes	16	J	Yes	C156			13.5	J	Yes	1.17	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	0.00773		Yes	42.8	J	Yes	0.333		Yes	0.0178		Yes	4.33		Yes	C156			4.53	J	Yes	0.313	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	0.0229		Yes	62.4	J	Yes	0.764		Yes	0.0412		Yes	6.8		Yes	C156			6.87	J	Yes	0.541	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	0.13		Yes	113	J	Yes	1.25		Yes	0.153		Yes	12.3	J	Yes	C156			12.6	J	Yes	0.807	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	0.0399		Yes	25.1	J	Yes	0.405		Yes	0.0306		Yes	2.62		Yes	C156			2.65		Yes	0.251	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	0.0349	J	Yes	28	J	Yes	0.377	J	Yes	0.0312	J	Yes	2.89	J	Yes	C156			2.89	J	Yes	0.249	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	0.00572	EMPC-J	Yes	46.6	J	Yes	0.254		Yes	0.0153		Yes	4.49		Yes	C156			4.62	J	Yes	0.335	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	0.0116		Yes	74.9	J	Yes	0.47		Yes	0.0343		Yes	7.75		Yes	C156			8.05	J	Yes	0.53	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	0.00381		Yes	64.3	J	Yes	0.22		Yes	0.0228		Yes	6.82		Yes	C156			6.6	J	Yes	0.506	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	0.00292		Yes	47.8	J	Yes	0.204		Yes	0.0168		Yes	4.92		Yes	C156			5.01	J	Yes	0.387	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	0.0538		Yes	83.5	J	Yes	0.645		Yes	0.169		Yes	9.41	J	Yes	C156			9.54	J	Yes	0.62	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	0.244		Yes	120	J	Yes	2.27		Yes	0.223		Yes	14.4	J	Yes	C156			13.8	J	Yes	1.16	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	0.0729		Yes	40.1	J	Yes	0.776		Yes	0.0468		Yes	4.35		Yes	C156			4.63	J	Yes	0.33	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	0.184		Yes	118	J	Yes	1.77		Yes	0.155		Yes	13.6	J	Yes	C156			12.8	J	Yes	0.877	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	0.0678		Yes	27.4	J	Yes	0.539		Yes	0.0535		Yes	3.3		Yes	C156			3.19		Yes	0.249	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	0.182		Yes	131	J	Yes	1.78		Yes	0.198		Yes	15.4	J	Yes	C156			14.4	J	Yes	0.991	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	0.0441		Yes	82.6	J	Yes	1.24		Yes	0.0747		Yes	11.4	J	Yes	C156			9.55	J	Yes	0.814	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	0.0784		Yes	42.3	J	Yes	0.735		Yes	0.0638		Yes	4.87		Yes	C156			4.57	J	Yes	0.468	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	0.0169		Yes	82.9	J	Yes	0.59		Yes	0.0474		Yes	10.7	J	Yes	C156			8.91	J	Yes	0.793	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	0.00388		Yes	110	J	Yes	0.442		Yes	0.0446		Yes	13.3	J	Yes	C156			11.6	J	Yes	0.854	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	0.00356		Yes	98.6	J	Yes	0.515		Yes	0.046		Yes	12.4	J	Yes	C156			10.7	J	Yes	0.916	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	0.0457		Yes	108	J	Yes	1.37		Yes	0.138		Yes	14	J	Yes	C156			11.9	J	Yes	0.832	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	0.0257		Yes	278	J	Yes	3.09		Yes	0.496		Yes	48	J	Yes	C156			32.2	J	Yes	1.03	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	0.0432		Yes	250	J	Yes	2.55		Yes	0.469		Yes	35.7	J	Yes	C156			25.5	J	Yes	0.955	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	0.0217		Yes	87.8	J	Yes	0.734		Yes	0.146		Yes	10.6	J	Yes	C156			9.51	J	Yes	0.643	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.00713		Yes	20.9	J	Yes	0.236		Yes	0.0202		Yes	2.23		Yes	C156			2.09		Yes	0.148	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.00428		Yes	85.3	J	Yes	0.595		Yes	0.0803		Yes	8.98	J	Yes	C156			6.99	J	Yes	0.242	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	0.0116		Yes	97.2	J	Yes	0.771		Yes	0.116		Yes	9.79	J	Yes	C156			8.14	J	Yes	0.304	

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-160			PCB-161			PCB-162			PCB-163			PCB-164			PCB-165			PCB-166			
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	Yes	0.0011	U	No	0.00108	U	No	0.284		Yes	C129			5.02	J	Yes	0.00117	U	No	C128			4.67
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	Yes	0.00137	U	No	0.00136	U	No	0.228		Yes	C129			4.14	J	Yes	0.00147	U	No	C128			4.4
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	Yes	0.00139	U	No	0.00137	U	No	0.262		Yes	C129			4.73	J	Yes	0.124		Yes	C128			4.27
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	Yes	0.00156	U	No	0.00154	U	No	0.27		Yes	C129			9.59	J	Yes	0.125		Yes	C128			5.3
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	Yes	0.00174	U	No	0.00163	U	No	0.324		Yes	C129			4.96	J	Yes	0.00183	U	No	C128			5.26
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	Yes	0.00177	U	No	0.00174	U	No	0.108		Yes	C129			3.24		Yes	0.0386		Yes	C128			1.82
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	Yes	0.00122	U	No	0.0012	U	No	0.213		Yes	C129			3.49		Yes	0.0013	U	No	C128			3.14
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	Yes	0.00168	U	No	0.00166	U	No	0.231		Yes	C129			4.8	J	Yes	0.0018	U	No	C128			4.37
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	Yes	0.00107	U	No	0.001	U	No	0.308		Yes	C129			5.07	J	Yes	0.062		Yes	C128			5.23
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	Yes	0.000925	U	No	0.000869	U	No	0.101		Yes	C129			1.84		Yes	0.000974	U	No	C128			1.34
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	Yes	0.000815	U	No	0.0008	U	No	0.21		Yes	C129			4.12	J	Yes	0.0587		Yes	C128			3.69
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	Yes	0.00166	U	No	0.00163	U	No	0.16		Yes	C129			3.73		Yes	0.0753	J	Yes	C128			3.35
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	Yes	0.0016	U	No	0.00157	U	No	0.327		Yes	C129			6.39	J	Yes	0.132		Yes	C128			5.68
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	Yes	0.0019	U	No	0.00187	U	No	0.365		Yes	C129			11.9	J	Yes	0.00203	U	No	C128			6.45
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	Yes	0.00266	U	No	0.00236	U	No	0.3		Yes	C129			4.88	J	Yes	0.103		Yes	C128			4.94
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	No	0.00186	U	No	0.00183	U	No	0.158		Yes	C129			4.92	J	Yes	0.0376	EMPC-J	Yes	C128			2.6
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	Yes	0.00132	U	No	0.00129	U	No	0.259		Yes	C129			5.36	J	Yes	0.0535		Yes	C128			4.51
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	Yes	0.00263	U	No	0.00258	U	No	0.273		Yes	C129			6.07	J	Yes	0.0561		Yes	C128			4.89
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	Yes	0.0016	U	No	0.0236		Yes	0.313		Yes	C129			6.39	J	Yes	0.0499		Yes	C128			5.88
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	Yes	0.00147	U	No	0.0013	U	No	0.125		Yes	C129			2.9		Yes	0.0121		Yes	C128			1.93
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	Yes	0.00161	U	No	0.00151	U	No	0.157		Yes	C129			2.6		Yes	0.0576		Yes	C128			2.72
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	Yes	0.00218	U	No	0.00205	U	No	0.00816	U	No	C129			5.79	J	Yes	0.078		Yes	C128			5.49
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	No	0.00632	U	No	0.00603	U	No	0.122		Yes	C129			1.96		Yes	0.00649	U	No	C128			2.45
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	Yes	0.00113	U	No	0.00106	U	No	0.0237		Yes	C129			1.28		Yes	0.0163		Yes	C128			1.69
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	Yes	0.00131	U	No	0.00123	U	No	0.147		Yes	C129			2.45		Yes	0.0323		Yes	C128			2.55
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	Yes	0.00176	U	No	0.00166	U	No	0.315		Yes	C129			5.32	J	Yes	0.00186	U	No	C128			4.85
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	Yes	0.000485	U	No	0.000476	U	No	0.25		Yes	C129			4.61	J	Yes	0.0271		Yes	C128			4.22
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	Yes	0.000755	U	No	0.000745	U	No	0.195		Yes	C129			3.94	J	Yes	0.0365	J	Yes	C128			3.9
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	Yes	0.000745	U	No	0.000732	U	No	0.293		Yes	C129			5.52	J	Yes	0.128		Yes	C128			4.94
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	Yes	0.000856	U	No	0.000844	U	No	0.313		Yes	C129			10.6	J	Yes	0.0695		Yes	C128			5.82
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	Yes	0.0011	U	No	0.000998	U	No	0.312		Yes	C129			4.92	J	Yes	0.0521		Yes	C128			5.1
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	Yes	0.000903	U	No	0.000888	U	No	0.128		Yes	C129			3.91	J	Yes	0.0382	EMPC-J	Yes	C128			2.13
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	Yes	0.000633	U	No	0.00062	U	No	0.234		Yes	C129			4.33	J	Yes	0.0244		Yes	C128			3.76
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	Yes	0.00106	U	No	0.00104	U	No	0.25		Yes	C129			5.38	J	Yes	0.0262		Yes	C128			4.61
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	Yes	0.000644	U	No	0.01		Yes	0.31		Yes	C129			5.62	J	Yes	0.057		Yes	C128			5.5
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	Yes	0.000595	U	No	0.00054	U	No	0.113		Yes	C129			2.36		Yes	0.00615		Yes	C128			1.63
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	Yes	0.00116	U	No	0.00108	U	No	0.0516		Yes	C129			0.836		Yes	0.00118	U	No	C128			0.547
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	Yes	0.00037	U	No	0.00034	U	No	0.0186		Yes	C129			0.353		Yes	0.00386		Yes	C128			0.209
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	Yes	0.00189		Yes	0.000225	U	No	0.0102		Yes	C129			0.214		Yes	0.00221		Yes	C128			0.119
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	Yes	0.000273	U	No	0.00025	U	No	0.00982		Yes	C129			0.159		Yes	0.00205		Yes	C128			0.115
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	Yes	0.000356	U	No	0.00155		Yes	0.0192		Yes	C129			0.4		Yes	0.00325		Yes	C128			0.234
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	Yes	0.000302	U	No	0.000278	U	No	0.00718		Yes	C129			0.114		Yes	0.00111	EMPC-J	Yes	C128			0.0876
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	Yes	0.000237	U	No	0.000218	U	No	0.00135		Yes	C129			0.0364		Yes	0.000235	U	No	C128			0.0168
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes	0.00216	U	No	0.014		Yes	0.17		Yes	C129			2.06		Yes	0.038		Yes	C128			1.99
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	Yes	0.000773	U	No	0.000698	U	No	0.0436		Yes	C129			0.785		Yes	0.0129		Yes	C128			0.58
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes	0.00173	U	No	0.00156	U	No	0.0925		Yes	C129			2.01		Yes	0.00178	U	No	C128			1.16
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes	0.00256	U	No	0.00231	U	No	0.0598		Yes	C129			0.983		Yes	0.00263	U	No	C128			0.74
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes	0.0019	U	No	0.00172	U	No	0.124		Yes	C129			1.82		Yes	0.016		Yes	C128			1.63
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	Yes	0.00121	U	No	0.00109	U	No	0.0532		Yes	C129			0.961		Yes	0.0084		Yes	C128			0.618
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes	0.00835	U	No	0.00764	U	No	0.392		Yes	C129			5.95	J	Yes	0.135		Yes	C128			5.53
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes	0.00389	U	No	0.00356	U	No	0.174		Yes	C129			3.2		Yes	0.0469		Yes	C128			2.28
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes	0.00696	U	No	0.00638	U	No	0.379		Yes	C129			3.42		Yes	0.104		Yes	C128			5.68
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	Yes	0.0111	U	No	0.0101	U	No	0.0345	U	No	C129			6.87	J	Yes	0.0672		Yes	C128			6.18
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes	0.00721	U	No	0.0066	U	No	0.51		Yes	C129			6.08	J	Yes	0.0848		Yes	C128			6.92
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes	0.000404	U	No	0.000382	U	No	0.134		Yes	C129			1.92		Yes	0.0454		Yes	C128			1.81
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes	0.000498	U	No	0.0143		Yes	0.201		Yes	C129			3.16		Yes	0.0625		Yes	C128			2.69
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes	0.000899	U	No	0.000849	U	No	0.346		Yes	C129			4.8	J	Yes	0.0724		Yes	C128			5.04
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes	0.000624	U	No	0.000581	U	No	0.0863		Yes	C129			1.52		Yes	0.0211		Yes	C128			1.01
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes	0.000763	U	No	0.00072	U	No	0.11		Yes	C129			1.53	J	Yes	0.029		Yes	C128			1.28
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes	0.0129		Yes	0.000408	U	No	0.145		Yes	C129			1.83		Yes	0.0359		Yes	C128			1.96
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes	0.000675	U	No	0.000629	U	No	0.2		Yes	C129			2.82		Yes	0.072		Yes	C128			3.38
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes	0.000742	U	No	0.000692	U	No	0.18		Yes	C129			2.59		Yes	0.0263		Yes	C128			2.83
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes	0.000689	U	No	0.000642	U	No	0.15		Yes	C129			2.22		Yes	0.0263		Yes	C128			2.04
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes	0.00108	U	No	0.0174		Yes	0.294		Yes	C129			5.19	J	Yes	0.034		Yes	C128			3.69
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes	0.00676	U	No	0.00618	U	No	0.414		Yes	C129			5.32	J	Yes	0.155		Yes	C128			6.89
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	Yes	0.00274	U	No	0.00273	U	No	0.138		Yes	C129			2.55		Yes	0.0494		Yes	C128			1.67
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes	0.00879	U	No	16.8	J	Yes	0.509		Yes	C129			5.71	J	Yes	0.12		Yes	C128			5.91
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes	0.00346	U	No	0.00344	U	No	0.0993		Yes	C129			1.92		Yes	0.0336		Yes	C128			1.21
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes	0.0073	U	No	0.00727	U	No	0.457		Yes	C129			7.07	J	Yes	0.00812	U	No	C128			6.41
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes	0.0028	U	No	0.00749		Yes	0.325		Yes	C129			4.97	J	Yes	0.11		Yes	C128			4.54
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes	0.00144	U	No	0.00132	U	No	0.147		Yes	C129			2.68		Yes	0.0389		Yes	C128			1.89
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes	0.00249	U	No	0.00229	U	No	0.323		Yes	C129			3.23		Yes	0.094		Yes	C128			4.96
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes	0.00394	U	No	0.00359	U	No	0.0677		Yes	C129			5.54	J	Yes	0.0545		Yes	C128			5.14
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes	0.00255	U	No	0.00233	U	No	0.393		Yes	C129			4.83	J	Yes	0.0658		Yes	C128			5.33
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes	0.00248	U	No	0.00224	U	No	0.513		Yes	C129			5.28	J	Yes	0.00255	U	No	C128			6.05
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes	0.00204	U	No	0.122		Yes	0.996		Yes	C129			9.27	J	Yes	0.242		Yes	C128			22.1
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	Yes	0.00476	U	No	0.0798		Yes	0.803		Yes	C129			8.84	J	Yes	0.182		Yes	C128			15.6
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes	0.00248	U	No	0.00224	U	No	0.311		Yes	C129			5.14	J	Yes	0.0383		Yes	C128			4.31
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	Yes	0.000366	U	No	0.000336	U	No	0.0852		Yes	C129			1.01		Yes	0.0118		Yes	C128			0.915
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	Yes	0.0272		Yes	0.0233		Yes	0.19		Yes	C129			1.85		Yes	0.0459		Yes	C128			4.15
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	Yes	0.000655	U	No	0.0189		Yes	0.2		Yes	C129			2.66		Yes	0.0546		Yes	C128			4.38

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-167		PCB-168		
					µg/kg		µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	J	Yes	C153		
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	J	Yes	C153		
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	J	Yes	C153		
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	J	Yes	C153		
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	J	Yes	C153		
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05		Yes	C153		
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002		Yes	C153		
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	J	Yes	C153		
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	J	Yes	C153		
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026		Yes	C153		
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01		Yes	C153		
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02		Yes	C153		
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	J	Yes	C153		
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	J	Yes	C153		
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	J	Yes	C153		
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05		Yes	C153		
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	J	Yes	C153		
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	J	Yes	C153		
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	J	Yes	C153		
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026		Yes	C153		
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011		Yes	C153		
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	J	Yes	C153		
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001		Yes	C153		
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003		Yes	C153		
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005		Yes	C153		
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	J	Yes	C153		
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	J	Yes	C153		
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	J	Yes	C153		
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	J	Yes	C153		
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	J	Yes	C153		
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	J	Yes	C153		
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05		Yes	C153		
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	J	Yes	C153		
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	J	Yes	C153		
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	J	Yes	C153		
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026		Yes	C153		
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01		Yes	C153		
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013		Yes	C153		
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044		Yes	C153		
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061		Yes	C153		
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007		Yes	C153		
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058		Yes	C153		
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066		Yes	C153		
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035		Yes	C153		
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055		Yes	C153		
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057		Yes	C153		
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004		Yes	C153		
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006		Yes	C153		
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052		Yes	C153		
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	J	Yes	C153		
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011		Yes	C153		
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	J	Yes	C153		
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	J	Yes	C153		
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	J	Yes	C153		
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002		Yes	C153		
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008		Yes	C153		
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	J	Yes	C153		
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011		Yes	C153		
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	J	Yes	C153		
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014		Yes	C153		
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018		Yes	C153		
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028		Yes	C153		
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029		Yes	C153		
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030		Yes	C153		
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	J	Yes	C153		
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003		Yes	C153		
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	J	Yes	C153		
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007		Yes	C153		
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	J	Yes	C153		
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	J	Yes	C153		
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011		Yes	C153		
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	J	Yes	C153		
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	J	Yes	C153		
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	J	Yes	C153		
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	J	Yes	C153		
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	J	Yes	C153		
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	J	Yes	C153		
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	J	Yes	C153		
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004		Yes	C153		
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	J	Yes	C153		
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	J	Yes	C153		

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-169			PCB-170			PCB-171			PCB-172			PCB-173			PCB-174			PCB-175			PCB-176	
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg	
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.00837	U	No	20.4	J	Yes	5.65	J	Yes	4.05	J	Yes	C171			10.5	J	Yes	0.871	J	Yes	0.23	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.00776	U	No	18.4	J	Yes	5.74	J	Yes	0.00509	U	No	C171			8.56	J	Yes	0.86	J	Yes	0.278	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	0.00793	U	No	19.8	J	Yes	6.56	J	Yes	4.5	J	Yes	C171			11	J	Yes	1.03	J	Yes	0.276	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	0.0106	U	No	42.2	J	Yes	17.8	J	Yes	0.011	U	No	C171			31.1	J	Yes	2.03	J	Yes	0.352	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	0.00966	U	No	24.3	J	Yes	7.79	J	Yes	5.5	J	Yes	C171			13.6	J	Yes	1.25	J	Yes	0.393	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	0.00742	U	No	6.64	J	Yes	2.36	J	Yes	0.00568	U	No	C171			6.22	J	Yes	0.295	J	Yes	0.125	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.0059	U	No	13.4	J	Yes	3.97	J	Yes	0.00533	U	No	C171			6.79	J	Yes	0.588	J	Yes	0.132	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.0107	U	No	21.4	J	Yes	6.25	J	Yes	4.21	J	Yes	C171			10.2	J	Yes	0.978	J	Yes	0.199	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.00981	U	No	24.4	J	Yes	7.45	J	Yes	5.52	J	Yes	C171			11.6	J	Yes	1.15	J	Yes	0.249	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	0.00401	U	No	4.1	J	Yes	1.21	J	Yes	1	J	Yes	C171			4.77	J	Yes	0.186	J	Yes	0.272	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.00571	U	No	16.3	J	Yes	4.68	J	Yes	3.39	J	Yes	C171			7.51	J	Yes	0.657	J	Yes	0.151	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.00861	U	No	15.3	J	Yes	4.7	J	Yes	3.41	J	Yes	C171			7.36	J	Yes	0.667	J	Yes	0.29	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	0.00899	U	No	25	J	Yes	7.91	J	Yes	5.54	J	Yes	C171			12.9	J	Yes	1.14	J	Yes	0.386	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	0.0166	U	No	52.2	J	Yes	22	J	Yes	12.2	J	Yes	C171			36.1	J	Yes	2.38	J	Yes	0.453	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.0131	U	No	22.7	J	Yes	7.36		Yes	4.98	J	Yes	C171			12.4	J	Yes	1.14		Yes	0.375	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.00826	U	No	9.47	J	Yes	3.42	J	Yes	2.39	J	Yes	C171			8.4	J	Yes	0.408	J	Yes	0.185	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	0.0153	U	No	17.7	J	Yes	6.15	J	Yes	4.29	J	Yes	C171			9.91	J	Yes	0.837	J	Yes	0.21	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.0103	U	No	21.9	J	Yes	6.89	J	Yes	4.92	J	Yes	C171			10.4	J	Yes	1	J	Yes	0.215	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.0127	U	No	27.6	J	Yes	8.04	J	Yes	5.68	J	Yes	C171			12.3	J	Yes	1.15	J	Yes	0.292	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	0.00463	U	No	5.88	J	Yes	1.68	J	Yes	1.4	J	Yes	C171			6.3	J	Yes	0.227	J	Yes	0.385	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.00729	U	No	11.9	J	Yes	3.37	J	Yes	2.42	J	Yes	C171			3.77	J	Yes	0.489	J	Yes	0.0896	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	0.0106	U	No	13.3	J	Yes	6.92		Yes	2.27		Yes	C171			7.13	J	Yes	0.998		Yes	0.269	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.0215	U	No	9.81	J	Yes	2.87	J	Yes	1.71	J	Yes	C171			2.31	J	Yes	0.355	J	Yes	0.0762	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.00467	U	No	4.08	J	Yes	1.87	J	Yes	0.00401	U	No	C171			0.962	J	Yes	0.238	J	Yes	0.000894	U
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.00602	U	No	9.42	J	Yes	3.14	J	Yes	2.03	J	Yes	C171			4.6	J	Yes	0.453	J	Yes	0.0724	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	0.0073	U	No	21.4	J	Yes	6.62	J	Yes	4.4	J	Yes	C171			10.7	J	Yes	0.869	J	Yes	0.256	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.00358	U	No	18.5	J	Yes	5.21	J	Yes	3.75	J	Yes	C171			9.14	J	Yes	0.773	J	Yes	0.194	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.00408	U	No	16.9	J	Yes	5.24	J	Yes	1.64	J	Yes	C171			7.98	J	Yes	0.767	J	Yes	0.284	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	0.00422	U	No	22.3	J	Yes	7.2	J	Yes	4.99	J	Yes	C171			11.9	J	Yes	1.08	J	Yes	0.328	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	0.00664	U	No	46.7	J	Yes	19.7	J	Yes	5.47	J	Yes	C171			33.3	J	Yes	2.19	J	Yes	0.397	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	0.00569	U	No	23.5	J	Yes	7.57	J	Yes	5.24	J	Yes	C171			13	J	Yes	1.19	J	Yes	0.384	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	0.00388	U	No	7.77	J	Yes	2.79	J	Yes	0.96	J	Yes	C171			7.09	J	Yes	0.34	J	Yes	0.149	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.00507	U	No	15.3	J	Yes	4.95	J	Yes	1.93	J	Yes	C171			8.19	J	Yes	0.7	J	Yes	0.167	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.00526	U	No	21.6	J	Yes	6.54	J	Yes	4.54	J	Yes	C171			10.3	J	Yes	0.988	J	Yes	0.206	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.0055	U	No	25.7	J	Yes	7.69	J	Yes	5.59	J	Yes	C171			11.9	J	Yes	1.15	J	Yes	0.267	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.00216	U	No	4.97	J	Yes	1.44	J	Yes	1.2	J	Yes	C171			5.52	J	Yes	0.206	J	Yes	0.327	
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	0.00493	U	No	2.59	J	Yes	0.856	J	Yes	0.478		Yes	C171			2.65		Yes	0.127	J	Yes	0.295	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.00151	U	No	1.09	J	Yes	0.34	J	Yes	0.227	J	Yes	C171			1.19	J	Yes	0.0542	J	Yes	0.0836	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.000848	U	No	0.483		Yes	0.164	J	Yes	0.101	J	Yes	C171			0.573	J	Yes	0.0239	J	Yes	0.0289	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.00116	U	No	0.649		Yes	0.186		Yes	0.124		Yes	C171			0.499		Yes	0.0286		Yes	0.0253	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.00147	U	No	1.1	J	Yes	0.343	J	Yes	0.223	J	Yes	C171			1.3	J	Yes	0.0524	J	Yes	0.0894	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.000946	U	No	0.423		Yes	0.134		Yes	0.0864		Yes	C171			0.359		Yes	0.0188		Yes	0.0195	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.00049	U	No	0.0806		Yes	0.0261		Yes	0.0164		Yes	C171			0.099		Yes	0.00355		Yes	0.00556	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	0.0132	U	No	9.95	J	Yes	2.96	J	Yes	2.1	J	Yes	C171			6.5	J	Yes	0.443	J	Yes	0.195	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	0.00544	U	No	2.6	J	Yes	0.847	J	Yes	0.578	J	Yes	C171			3	J	Yes	0.137	J	Yes	0.187	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	0.00893	U	No	5.7	J	Yes	1.99	J	Yes	1.19	J	Yes	C171			7.5	J	Yes	0.32	J	Yes	0.671	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	0.00905	U	No	3.24	J	Yes	0.996	J	Yes	0.659	J	Yes	C171			3.41	J	Yes	0.161	J	Yes	0.287	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.0119	U	No	6.65	J	Yes	2.07	J	Yes	1.46	J	Yes	C171			5.28	J	Yes	0.325	J	Yes	0.556	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	0.00557	U	No	2.72	J	Yes	0.835	J	Yes	0.58	J	Yes	C171			3.02	J	Yes	0.132	J	Yes	0.201	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	0.0542	U	No	28.3	J	Yes	8.29	J	Yes	5.5	J	Yes	C171			24.1	J	Yes	1.23		Yes	3.21	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	0.019	U	No	12.2	J	Yes	3.35	J	Yes	2.05	J	Yes	C171			11.5	J	Yes	0.524	J	Yes	1.55	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	0.044	U	No	26.7	J	Yes	6.78	J	Yes	4.49	J	Yes	C171			15	J	Yes	1.05	J	Yes	2.59	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	0.0537	U	No	42.4	J	Yes	9.2	J	Yes	6.99	J	Yes	C171			22.6	J	Yes	1.39		Yes	3.7	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	0.0496	U	No	35.3	J	Yes	8.66	J	Yes	6.14	J	Yes	C171			22.8	J	Yes	1.28	J	Yes	3.61	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	0.00348	U	No	10.2	J	Yes	3.04	J	Yes	2.12	J	Yes	C171			7.08	J	Yes	0.444	J	Yes	1.05	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	0.00516	U	No	15	J	Yes	4.35	J	Yes	2.81	J	Yes	C171			12	J	Yes	0.613	J	Yes	1.75	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	0.00646	U	No	27.6	J	Yes	7.22	J	Yes	5.1	J	Yes	C171			16.3	J	Yes	0.949	J	Yes	2.94	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	0.00324	U	No	5.31	J	Yes	1.61	J	Yes	0.979	J	Yes	C171			5.19	J	Yes	0.243	J	Yes	0.62	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	0.00338	U	No	6.97	J	Yes	2.1	J	Yes	1.42	J	Yes	C171			5.47	J	Yes	0.283	J	Yes	0.748	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	0.00517	U	No	12.8	J	Yes	3.27	J	Yes	2.47	J	Yes	C171			7.07	J	Yes	0.484	J	Yes	1.1	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	0.00596	U	No	20.1	J	Yes	5.5	J	Yes	3.73	J	Yes	C171			11.5	J	Yes	0.777	J	Yes	1.75	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	0.00694	U	No	19.1	J	Yes	4.47	J	Yes	3.37	J	Yes	C171			10.7	J	Yes	0.644	J	Yes	1.49	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	0.00419	U	No	11.7	J	Yes	3.11	J	Yes	2.15	J	Yes	C171			7.94	J	Yes	0.455	J	Yes	1.15	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	0.00676	U	No	16.1	J	Yes	5.24	J	Yes	2.93	J	Yes	C171			14.2	J	Yes	0.711	J	Yes	2.43	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	0.0612	U	No	34.2	J	Yes	8.34	J	Yes	5.91	J	Yes	C171			22.5	J	Yes	1.33		Yes	3.63	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	0.0134	U	No	8.85	J	Yes	2.77	J	Yes	1.72	J	Yes	C171			8.55	J	Yes	0.393	J	Yes	1.16	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	0.0355	U	No	33	J	Yes	8.52	J	Yes	6.49	J	Yes	C171			20.5	J	Yes	1.27	J	Yes	3.41	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	0.0117	U	No	6.47	J	Yes	1.98	J	Yes	1.21	J	Yes	C171			6.23	J	Yes	0.285	J	Yes	0.795	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	0.039	U	No	40.9	J	Yes	10.8	J	Yes	8.35	J	Yes	C171			27.1	J	Yes	1.63	J	Yes	3.87	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	0.0185	U	No	23.6	J	Yes	6.91	J	Yes	4.56	J	Yes	C171			19.9	J	Yes	1.01	J	Yes	2.7	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	0.00705	U	No	10.1	J	Yes	2.81	J	Yes	1.72	J	Yes	C171			9.54	J	Yes	0.437	J	Yes	1.26	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	0.016	U	No	24.6	J	Yes	6.38	J	Yes	4.25	J	Yes	C171			13.9	J	Yes	0.964	J	Yes	2.33	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	0.0196	U	No	35.2	J	Yes	7.73	J	Yes	5.87	J	Yes	C171			18.9	J	Yes	1.16	J	Yes	3.01	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	0.0174	U	No	27.6	J	Yes	6.86	J	Yes	4.84	J	Yes	C171			18	J	Yes	1.01	J	Yes	2.81	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	0.0262	U	No	25	J	Yes	7.31	J	Yes	5.5	J	Yes	C171			17.8	J	Yes	1.1	J	Yes	1.4	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	0.0477	U	No	87.4	J	Yes	23.2	J	Yes	18.1	J	Yes	C171			26.2	J	Yes	3.35	J	Yes	0.531	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	0.0374	U	No	68.7	J	Yes	17.5	J	Yes	12.6	J	Yes	C171			22.5	J	Yes	2.58	J	Yes	1.5	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	0.0184	U	No	19.5	J	Yes	6.13	J	Yes	4.01	J	Yes	C171			14.6	J	Yes	0.909	J	Yes	0.664	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.0037	U	No	4.23	J	Yes	1.26	J	Yes	0.898	J	Yes	C171			3.09	J	Yes	0.188	J	Yes	0.21	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.00583	U	No	18.6	J	Yes	4.4	J	Yes	3.33	J	Yes	C171			4.98	J	Yes	0.618	J	Yes	0.089	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	0.00607	U	No	19.4	J	Yes	4.98	J	Yes	0.00352	U	No	C171			6.18	J	Yes	0.71	J	Yes	0.383	

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-177			PCB-178			PCB-179			PCB-180			PCB-181			PCB-182			PCB-183			
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	Yes	12	J	Yes	6.02	J	Yes	3.59		Yes	50.9	J	Yes	0.208	J	Yes	0.125	J	Yes	14.6	J	Yes	0.157
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	Yes	12.1	J	Yes	5.92	J	Yes	3.38		Yes	49.4	J	Yes	0.209	J	Yes	0.143	J	Yes	15.3	J	Yes	0.136
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	Yes	12.9	J	Yes	6.58	J	Yes	2.92		Yes	51.6	J	Yes	0.232	J	Yes	0.152	J	Yes	17.3	J	Yes	0.156
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	Yes	41.6	J	Yes	17.9	J	Yes	11.6	J	Yes	107	J	Yes	0.314	J	Yes	0.231	J	Yes	39.7	J	Yes	0.781
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	Yes	13.9	J	Yes	7.84	J	Yes	4.26	J	Yes	59.5	J	Yes	0.277	J	Yes	0.185	J	Yes	18.6	J	Yes	0.173
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	Yes	7	J	Yes	3.09		Yes	1.73		Yes	17.5	J	Yes	0.0927		Yes	0.0631		Yes	6.55	J	Yes	0.0969
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	Yes	8.48	J	Yes	4.22	J	Yes	1.92		Yes	33.8	J	Yes	0.139	J	Yes	0.0909	J	Yes	10.4	J	Yes	0.114
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	Yes	14.4	J	Yes	6.57	J	Yes	2.59		Yes	52.1	J	Yes	0.195	J	Yes	0.128	J	Yes	17	J	Yes	0.222
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	Yes	13.8	J	Yes	6.91	J	Yes	2.9		Yes	63.6	J	Yes	0.255	J	Yes	0.168	J	Yes	18.6	J	Yes	0.218
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	Yes	3.52	J	Yes	1.36		Yes	1.19		Yes	11.7	J	Yes	0.057	J	Yes	0.00242	U	No	3.19	J	Yes	0.0106
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	Yes	8.72	J	Yes	5	J	Yes	2.58		Yes	39.6	J	Yes	0.163	J	Yes	0.0944	J	Yes	10.4	J	Yes	0.131
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	Yes	9.38	J	Yes	5.07	J	Yes	3.2		Yes	41.3	J	Yes	0.177	J	Yes	0.111	J	Yes	11	J	Yes	0.105
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	Yes	14.1	J	Yes	8.83	J	Yes	3.86		Yes	61.4	J	Yes	0.289	J	Yes	0.146	J	Yes	17.4	J	Yes	0.21
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	Yes	48	J	Yes	24	J	Yes	14.9	J	Yes	129	J	Yes	0.386	J	Yes	0.272	J	Yes	40.5	J	Yes	1.05
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	Yes	12.8	J	Yes	7.12	J	Yes	3.82		Yes	60.7	J	Yes	0.258		Yes	0.153		Yes	16.3	J	Yes	0.164
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	Yes	9.33	J	Yes	4.62	J	Yes	2.52		Yes	24.6	J	Yes	0.129	J	Yes	0.0881	J	Yes	7.85	J	Yes	0.147
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	Yes	12.2	J	Yes	6.4	J	Yes	2.83		Yes	50.2	J	Yes	0.208	J	Yes	0.12	J	Yes	13.2	J	Yes	0.179
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	Yes	14.8	J	Yes	7.52	J	Yes	2.74		Yes	58.7	J	Yes	0.221	J	Yes	0.11	J	Yes	16.1	J	Yes	0.249
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	Yes	14.2	J	Yes	7.51	J	Yes	3.11		Yes	72.2	J	Yes	0.271	J	Yes	0.162	J	Yes	17.3	J	Yes	0.245
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	Yes	4.55	J	Yes	2.11		Yes	1.55		Yes	17.7	J	Yes	0.0795	J	Yes	0.037	J	Yes	3.51	J	Yes	0.0147
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	Yes	6.94	J	Yes	4.19	J	Yes	1.23		Yes	29.7	J	Yes	0.123	J	Yes	0.0798	J	Yes	8.48	J	Yes	0.0999
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	Yes	16	J	Yes	7.95	J	Yes	3.96	J	Yes	35.4	J	Yes	0.211		Yes	0.103		Yes	14.5	J	Yes	0.304
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	Yes	6.19	J	Yes	2.68		Yes	0.544		Yes	22.5	J	Yes	0.0974	J	Yes	0.0111	U	No	6.98	J	Yes	0.096
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	No	5.07	J	Yes	2.41		Yes	0.0563		Yes	14.6	J	Yes	0.0804	J	Yes	0.0358	J	Yes	4.7	J	Yes	0.1
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	Yes	6.51	J	Yes	3.35		Yes	1.86		Yes	25.4	J	Yes	0.122	J	Yes	0.0614	J	Yes	7.56	J	Yes	0.143
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	Yes	12.5	J	Yes	7.38	J	Yes	3.4		Yes	55.2	J	Yes	0.223	J	Yes	0.121	J	Yes	15.8	J	Yes	0.195
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	Yes	10.5	J	Yes	5.55	J	Yes	3.13		Yes	45.7	J	Yes	0.187	J	Yes	0.111	J	Yes	12.7	J	Yes	0.145
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	Yes	10.8	J	Yes	5.51	J	Yes	3.29		Yes	45.5	J	Yes	0.194	J	Yes	0.128	J	Yes	13.2	J	Yes	0.121
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	Yes	13.5	J	Yes	7.64	J	Yes	3.36		Yes	56.2	J	Yes	0.259	J	Yes	0.149	J	Yes	17.3	J	Yes	0.182
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	Yes	44.5	J	Yes	20.6	J	Yes	13.1	J	Yes	117	J	Yes	0.346	J	Yes	0.249	J	Yes	40.1	J	Yes	0.902
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	Yes	13.3	J	Yes	7.48	J	Yes	4.04	J	Yes	60.1	J	Yes	0.267	J	Yes	0.169	J	Yes	17.4	J	Yes	0.168
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	Yes	7.93	J	Yes	3.7	J	Yes	2.05		Yes	20.3	J	Yes	0.107	J	Yes	0.0731	J	Yes	7.07	J	Yes	0.117
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	Yes	10.2	J	Yes	5.2	J	Yes	2.33		Yes	41.2	J	Yes	0.17	J	Yes	0.104	J	Yes	11.7	J	Yes	0.143
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	Yes	14.6	J	Yes	7.01	J	Yes	2.66		Yes	55.1	J	Yes	0.207	J	Yes	0.12	J	Yes	16.6	J	Yes	0.234
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	Yes	14	J	Yes	7.16	J	Yes	2.99		Yes	67.2	J	Yes	0.262	J	Yes	0.166	J	Yes	18.1	J	Yes	0.229
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	Yes	4.02	J	Yes	1.73		Yes	1.37		Yes	14.6	J	Yes	0.068	J	Yes	0.0187	J	Yes	3.35	J	Yes	0.0126
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	Yes	1.72	J	Yes	0.823		Yes	0.969		Yes	6.07	J	Yes	0.0268		Yes	0.0207		Yes	1.92	J	Yes	0.0186
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	Yes	0.74	J	Yes	0.283		Yes	0.41		Yes	2.92	J	Yes	0.0111	J	Yes	0.00981	J	Yes	0.641	J	Yes	0.00386
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	Yes	0.36	J	Yes	0.127		Yes	0.179		Yes	1.32	J	Yes	0.006	J	Yes	0.00467	J	Yes	0.23	J	Yes	0.00176
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	Yes	0.353		Yes	0.133		Yes	0.143		Yes	1.68		Yes	0.00593		Yes	0.00453		Yes	0.311		Yes	0.00116
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	Yes	0.772	J	Yes	0.287		Yes	0.416		Yes	3.05	J	Yes	0.0108	J	Yes	0.00767	J	Yes	0.655	J	Yes	0.00437
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	Yes	0.261		Yes	0.0995		Yes	0.095		Yes	1.17		Yes	0.00448		Yes	0.00291		Yes	0.185		Yes	0.00105
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	Yes	0.0588		Yes	0.0203		Yes	0.0338		Yes	0.207		Yes	0.000789	J	Yes	0.000757	J	Yes	0.0406		Yes	0.00017
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes	2.54	J	Yes	2.11		Yes	1.86		Yes	28.4	J	Yes	0.111	J	Yes	0.0987	J	Yes	7.03	J	Yes	0.0519
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	Yes	1.82	J	Yes	0.708		Yes	1.02		Yes	7.14	J	Yes	0.0326	J	Yes	0.0343	J	Yes	1.39	J	Yes	0.00887
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes	4.03	J	Yes	1.6		Yes	3.05		Yes	14.3	J	Yes	0.0651	J	Yes	0.0542	J	Yes	3.61	J	Yes	0.013
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes	2.19	J	Yes	0.956		Yes	1.24		Yes	8.38	J	Yes	0.0366	J	Yes	0.0279	J	Yes	1.87	J	Yes	0.0257
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes	4.19	J	Yes	1.78		Yes	1.72		Yes	19.2	J	Yes	0.0787	J	Yes	0.0562	J	Yes	5.06	J	Yes	0.0693
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	Yes	1.88	J	Yes	0.73		Yes	1.04		Yes	7.16	J	Yes	0.0314	J	Yes	0.0263	J	Yes	1.53	J	Yes	0.0186
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes	14.6	J	Yes	7.41	J	Yes	10.7	J	Yes	71	J	Yes	0.289		Yes	0.19		Yes	18.8	J	Yes	0.0823
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes	7.31	J	Yes	3.43		Yes	5.07	J	Yes	27.9	J	Yes	0.116	J	Yes	0.117	J	Yes	8.68	J	Yes	0.0823
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes	13.8	J	Yes	7.12	J	Yes	8.46	J	Yes	60.5	J	Yes	0.194	J	Yes	0.129	J	Yes	16.9	J	Yes	0.0499
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	Yes	15.8	J	Yes	8.51	J	Yes	10.2	J	Yes	102	J	Yes	0.263		Yes	0.196		Yes	24.5	J	Yes	0.0677
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes	15.2	J	Yes	8.33	J	Yes	10.8	J	Yes	85.1	J	Yes	0.263	J	Yes	0.16	J	Yes	22.1	J	Yes	0.0607
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes	6.19	J	Yes	3		Yes	3.21		Yes	27.1	J	Yes	0.0998	J	Yes	0.0659	J	Yes	6.77	J	Yes	0.0158
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes	8.15	J	Yes	4.54	J	Yes	6.02	J	Yes	38	J	Yes	0.141	J	Yes	0.0911	J	Yes	8.5	J	Yes	0.0322
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes	12.9	J	Yes	8.23	J	Yes	9.44	J	Yes	65.8	J	Yes	0.223	J	Yes	0.124	J	Yes	15.9	J	Yes	0.172
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes	3.43	J	Yes	1.47		Yes	2.21		Yes	13.5	J	Yes	0.0498	J	Yes	0.0365	J	Yes	3.37	J	Yes	0.029
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes	3.59	J	Yes	1.78	J	Yes	2.4	J	Yes	18	J	Yes	0.069	J	Yes	0.0503	J	Yes	4.77	J	Yes	0.0415
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes	5.88	J	Yes	3.19		Yes	3.22		Yes	33.6	J	Yes	0.0981	J	Yes	0.0504	J	Yes	8.73	J	Yes	0.0158
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes	11.4	J	Yes	5.47	J	Yes	5.75	J	Yes	50.7	J	Yes	0.159	J	Yes	0.104	J	Yes	10.9	J	Yes	0.0299
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes	7.72	J	Yes	3.87	J	Yes	4.1	J	Yes	49.8	J	Yes	0.122	J	Yes	0.0519	J	Yes	9.81	J	Yes	0.0271
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes	5.53	J	Yes	2.94		Yes	3.46		Yes	30.3	J	Yes	0.092	J	Yes	0.0519	J	Yes	6.92	J	Yes	0.0184
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes	10.5	J	Yes	5.66	J	Yes	7.59	J	Yes	39.6	J	Yes	0.158	J	Yes	0.0763	J	Yes	11.6	J	Yes	0.243
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes	17.5	J	Yes	9.32	J	Yes	12.2	J	Yes	79.2	J	Yes	0.285		Yes	0.23		Yes	21.3	J	Yes	0.229
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	Yes	5.55	J	Yes	2.71		Yes	4.2	J	Yes	22.3	J	Yes	0.101	J	Yes	0.0952	J	Yes	5.23	J	Yes	0.044
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes	14	J	Yes	8.1	J	Yes	10.4	J	Yes	87.6	J	Yes	0.288	J	Yes	0.22	J	Yes	18.1	J	Yes	0.211
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes	4	J	Yes	1.83		Yes	2.8		Yes	14.9	J	Yes	0.0708	J	Yes	0.0596	J	Yes	3.88	J	Yes	0.0507
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes	21.1	J	Yes	9.48	J	Yes	11.9	J	Yes	109	J	Yes	0.349	J	Yes	0.188	J	Yes	22.4	J	Yes	0.232
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes	12.3	J	Yes	6.41	J	Yes	9.06	J	Yes	59.5	J	Yes	0.237	J	Yes	0.155	J	Yes	15.2	J	Yes	0.0648
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes	6.1	J	Yes	2.82		Yes	4.18	J	Yes	23.4	J	Yes	0.0954	J	Yes	0.092	J	Yes	7.03	J	Yes	0.0657
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes	13	J	Yes	6.6	J	Yes	7.61	J	Yes	57.4	J	Yes	0.183	J	Yes	0.121	J	Yes	15	J	Yes	0.0436
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes	13.3	J	Yes	7.07	J	Yes	8.31	J	Yes	85.8	J	Yes	0.219	J	Yes	0.151	J	Yes	19.9	J	Yes	0.0551
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes	12.1	J	Yes	6.58	J	Yes	8.41	J	Yes	67.3	J	Yes	0.207	J	Yes	0.125	J	Yes	17.2	J	Yes	0.047
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes	13.2	J	Yes	6.15	J	Yes	5.47	J	Yes	66.4	J	Yes	0.283	J	Yes	0.277	J	Yes	18	J	Yes	0.15
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes	33.8	J	Yes	18	J	Yes	3.22		Yes	196	J	Yes	0.775	J	Yes	0.617	J	Yes	52.6	J	Yes	0.42
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	Yes	30.2	J	Yes	16.1	J	Yes	5.08	J	Yes	155	J	Yes	0.561	J	Yes	0.426	J	Yes	44.3	J	Yes	0.396
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes	5.88	J	Yes	5.31	J	Yes	2.34		Yes	54.5	J	Yes	0.186	J	Yes	0.152	J	Yes	14.8	J	Yes	0.168
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	Yes	2.31	J	Yes	0.984		Yes	0.877		Yes	11.4	J	Yes	0.0446	J	Yes	0.0404	J	Yes	3.21	J	Yes	0.022
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	Yes	6.45	J	Yes	3.47		Yes	0.558		Yes	48.4	J	Yes	0.14	J	Yes	0.0902	J	Yes	9.72	J	Yes	0.0741
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	Yes	8.48	J	Yes	4.42	J	Yes	1.36		Yes	49.8	J	Yes	0.152	J	Yes	0.0952	J	Yes	11.6	J	Yes	0.101

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-184			PCB-185			PCB-186			PCB-187			PCB-188			PCB-189			PCB-190			PCB-191		
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Qual		Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01			Yes	0.00622	U	No	0.00126	U	No	37.6	J	Yes	0.0477		Yes	0.839	J	Yes	5.09	J	Yes	0.871	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02			Yes	0.00458	U	No	0.00122	U	No	40.4	J	Yes	0.0562		Yes	0.746	J	Yes	4.3	J	Yes	0.00377	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03			Yes	0.00561	U	No	0.00107	U	No	43.5	J	Yes	0.0723		Yes	0.78	J	Yes	4.85	J	Yes	0.95	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04			Yes	0.00995	U	No	0.00128	U	No	135	J	Yes	0.0951		Yes	1.71	J	Yes	13.4	J	Yes	0.00818	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008			Yes	0.00834	U	No	0.00148	U	No	54.5	J	Yes	0.0836		Yes	1.01		Yes	5.83	J	Yes	1.08	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05			Yes	0.00512	U	No	0.00183	U	No	41.8	J	Yes	0.0165		Yes	0.296	J	Yes	0.00525	U	No	0.00421	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002			Yes	0.00481	U	No	0.00137	U	No	36.4	J	Yes	0.0216		Yes	0.552		Yes	0.00513	U	No	0.00395	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006			Yes	0.00531	U	No	0.00166	U	No	54.1	J	Yes	0.0424		Yes	0.769	J	Yes	5.24	J	Yes	0.846	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007			Yes	0.00602	U	No	0.00101	U	No	57.2	J	Yes	0.046		Yes	0.963		Yes	6.42	J	Yes	1.11	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026			Yes	0.00277	U	No	0.000974	U	No	8.84	J	Yes	0.00781		Yes	0.218	J	Yes	1.06	J	Yes	0.189	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01			Yes	0.628	J	Yes	0.00065	U	No	25.3	J	Yes	0.0343		Yes	0.638		Yes	4.18	J	Yes	0.762	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02			Yes	0.733	J	Yes	0.00161	U	No	31.2	J	Yes	0.0511		Yes	0.585		Yes	3.65	J	Yes	0.734	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03			Yes	1.17	J	Yes	0.00174	U	No	45.5	J	Yes	0.0974		Yes	0.972	J	Yes	6.28	J	Yes	1.18	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04			Yes	3.77	J	Yes	0.00213	U	No	145	J	Yes	0.118		Yes	2.06	J	Yes	17.2	J	Yes	2.5	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008			Yes	0.0112	U	No	0.00242	U	No	49.2	J	Yes	0.0845		Yes	0.931		Yes	5.15	J	Yes	1.06		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05			Yes	0.796	J	Yes	0.00247	U	No	48.1	J	Yes	0.0249		Yes	0.39	J	Yes	2.84	J	Yes	0.418	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002			Yes	1.15	J	Yes	0.00176	U	No	46.9	J	Yes	0.0327		Yes	0.744	J	Yes	4.72	J	Yes	0.898	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006			Yes	0.951	J	Yes	0.00197	U	No	50.4	J	Yes	0.0438		Yes	0.877		Yes	5.96	J	Yes	1.04	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007			Yes	1.66	J	Yes	0.00147	U	No	58.4	J	Yes	0.0512		Yes	1.13	J	Yes	6.85	J	Yes	1.25	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026			Yes	0.657	J	Yes	0.00156	U	No	10.7	J	Yes	0.0122		Yes	0.302		Yes	1.47	J	Yes	0.276	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011			Yes	0.00563	U	No	0.00151	U	No	28.7	J	Yes	0.0299		Yes	0.48		Yes	3.01	J	Yes	0.53	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019			Yes	0.00736	U	No	0.00257	U	No	43.3	J	Yes	0.0464		Yes	0.473		Yes	5.08	J	Yes	0.793		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001			Yes	0.0126	U	No	0.00598	U	No	23.3	J	Yes	0.00962	EMPC-J	Yes	0.378		Yes	2.78		Yes	0.415	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003			Yes	0.00388	U	No	0.000951	U	No	15.9	J	Yes	0.00346	EMPC-J	Yes	0.252	J	Yes	1.45	J	Yes	0.00303	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005			Yes	0.00442	U	No	0.00109	U	No	20.5	J	Yes	0.0214		Yes	0.416		Yes	2.47	J	Yes	0.42	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022			Yes	0.00683	U	No	0.00147	U	No	54.1	J	Yes	0.038		Yes	0.814	J	Yes	5.65	J	Yes	1.22	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01			Yes	0.288	J	Yes	0.000491	U	No	32	J	Yes	0.0416		Yes	0.747	J	Yes	4.68	J	Yes	0.821	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02			Yes	0.353	J	Yes	0.000704	U	No	36	J	Yes	0.0538		Yes	0.669	J	Yes	3.99	J	Yes	0.353	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03			Yes	0.555	J	Yes	0.000693	U	No	44.4	J	Yes	0.0842		Yes	0.871	J	Yes	5.53	J	Yes	1.06	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04			Yes	1.69	J	Yes	0.00083	U	No	139	J	Yes	0.105		Yes	1.87	J	Yes	15.1	J	Yes	1.12	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008			Yes	0.00489	U	No	0.000975	U	No	51.8	J	Yes	0.0841		Yes	0.97		Yes	5.49	J	Yes	1.07	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05			Yes	0.321	J	Yes	0.00104	U	No	44.3	J	Yes	0.0199		Yes	0.334	J	Yes	1.14	J	Yes	0.169	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002			Yes	0.519	J	Yes	0.000773	U	No	41.1	J	Yes	0.0266		Yes	0.638	J	Yes	2.13	J	Yes	0.405	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006			Yes	0.438	J	Yes	0.000901	U	No	52.4	J	Yes	0.043		Yes	0.819	J	Yes	5.57	J	Yes	0.935	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007			Yes	0.687	J	Yes	0.0006	U	No	57.7	J	Yes	0.0481		Yes	1.03	J	Yes	6.6	J	Yes	1.17	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026			Yes	0.321	J	Yes	0.00063	U	No	9.75	J	Yes	0.00995		Yes	0.259	J	Yes	1.26	J	Yes	0.231	J	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01			Yes	0.00262	U	No	0.000732	U	No	5.84	J	Yes	0.00988		Yes	0.0683	J	Yes	0.389	J	Yes	0.102	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013			Yes	0.12	J	Yes	0.000269	U	No	2.38	J	Yes	0.0046		Yes	0.0361	J	Yes	0.238	J	Yes	0.0458	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	EMPC-J		Yes	0.0767	J	Yes	0.000164	U	No	1.53	J	Yes	0.00182		Yes	0.0182		Yes	0.114		Yes	0.0222	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	EMPC-J		Yes	0.0552		Yes	0.000216	U	No	1.3		Yes	0.00168		Yes	0.0206		Yes	0.146		Yes	0.0271		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007			Yes	0.122	J	Yes	0.000266	U	No	3.13	J	Yes	0.00248		Yes	0.0371	J	Yes	0.25	J	Yes	0.047	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058			Yes	0.0514		Yes	0.000244	U	No	1.07		Yes	0.00118		Yes	0.0139		Yes	0.0996		Yes	0.0191		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	U		No	0.00885		Yes	0.000163	U	No	0.226		Yes	0.00015	U	No	0.00278		Yes	0.0193		Yes	0.0032		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035			Yes	0.929	J	Yes	0.00174	U	No	19.1	J	Yes	0.035		Yes	0.401	J	Yes	2.15	J	Yes	0.458	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055			Yes	0.319	J	Yes	0.000726	U	No	5.84	J	Yes	0.0147		Yes	0.106	J	Yes	0.55	J	Yes	0.115	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057			Yes	0.705	J	Yes	0.00143	U	No	12.4	J	Yes	0.0183		Yes	0.202	J	Yes	1.11	J	Yes	0.24	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004			Yes	0.352	J	Yes	0.00287	U	No	6.91	J	Yes	0.0108		Yes	0.14		Yes	0.735	J	Yes	0.141	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006			Yes	0.468	J	Yes	0.00167	U	No	15.7	J	Yes	0.0174		Yes	0.307	J	Yes	1.77	J	Yes	0.317	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052			Yes	0.227	J	Yes	0.00127	U	No	6.53	J	Yes	0.00803		Yes	0.115	J	Yes	0.588	J	Yes	0.116	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008			Yes	0.0213	U	No	0.00926	U	No	48	J	Yes	0.0977		Yes	1.31		Yes	6.38	J	Yes	1.23		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011			Yes	0.00898	U	No	0.00424	U	No	22.4	J	Yes	0.0602		Yes	0.458		Yes	2.64	J	Yes	0.453	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018			Yes	0.0155	U	No	0.00777	U	No	52.1	J	Yes	0.055		Yes	1.18		Yes	5.83	J	Yes	0.977	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028			Yes	0.023	U	No	0.0124	U	No	54.4	J	Yes	0.0255		Yes	1.54		Yes	9.65	J	Yes	1.65		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029			Yes	0.0285	U	No	0.00773	U	No	53.1	J	Yes	0.0318		Yes	1.4		Yes	7.83	J	Yes	1.41	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002			Yes	1.24	J	Yes	0.000366	U	No	18.2	J	Yes	0.0234		Yes	0.38		Yes	2.16	J	Yes	0.445	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008			Yes	1.92	J	Yes	0.000407	U	No	27	J	Yes	0.0449		Yes	0.536		Yes	3.21	J	Yes	0.629	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009			Yes	2.67	J	Yes	0.00094	U	No	41.4	J	Yes	0.0942		Yes	1		Yes	5.84	J	Yes	1.14	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011			Yes	0.697	J	Yes	0.000466	U	No	10.8	J	Yes	0.0217		Yes	0.177	J	Yes	1.17	J	Yes	0.214	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	J		Yes	0.678	J	Yes	0.000602	U	No	12.4	J	Yes	0.0269	J	Yes	0.26	J	Yes	1.45	J	Yes	0.295	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014			Yes	0.783	J	Yes	0.000514	U	No	21.6	J	Yes	0.0121		Yes	0.478		Yes	2.76	J	Yes	0.556	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018			Yes	2.36	J	Yes	0.000507	U	No	41.7	J	Yes	0.0359		Yes	0.763	J	Yes	4.39	J	Yes	0.838	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028			Yes	2.09	J	Yes	0.000743	U	No	26.7	J	Yes	0.0117		Yes	0.656	J	Yes	4.2	J	Yes	0.792	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029			Yes	0.924	J	Yes	0.000713	U	No	20.3	J	Yes	0.0107		Yes	0.424		Yes	2.58	J	Yes	0.494	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030			Yes	1.49	J	Yes	0.00115	U	No	30.3	J	Yes	0.0387		Yes	0.586		Yes	4.04	J	Yes	0.739	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001			Yes	0.0181	U	No	0.00796	U	No	52.4	J	Yes	0.192		Yes	1.64		Yes	7.13	J	Yes	1.27		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003			Yes	1.27	J	Yes	0.00286	U	No	16.4	J	Yes	0.0541		Yes	0.305	J	Yes	1.9	J	Yes	0.372	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005			Yes	3.63	J	Yes	0.00824	U	No	52.2	J	Yes	0.149		Yes	1.33	J	Yes	7.68	J	Yes	1.46	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007			Yes	0.572	J	Yes	0.00388	U	No	12.4	J	Yes	0.036		Yes	0.234	J	Yes	1.43	J	Yes	0.261	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016			Yes	3.62	J	Yes	0.00853	U	No	61.5	J	Yes	0.134		Yes	1.7	J	Yes	9.41	J	Yes	1.79	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008			Yes	0.679	J	Yes	0.00308	U	No	40.7	J	Yes	0.0792		Yes	1.04		Yes	5.27	J	Yes	1.02	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011			Yes	0.22	J	Yes	0.00153	U	No	18.8	J	Yes	0.0482		Yes	0.371	J	Yes	2.18	J	Yes	0.379	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018			Yes	0.746	J	Yes	0.00274	U	No	48.8	J	Yes	0.049		Yes	1.05	J	Yes	5.38	J	Yes	0.933	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028			Yes	0.656	J	Yes	0.00439	U	No	45.8	J	Yes	0.0212		Yes	1.27	J	Yes	7.96	J	Yes	1.38	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029			Yes	0.31	J	Yes	0.00272	U	No	42.4	J	Yes	0.0249		Yes	1.08		Yes	6.12	J	Yes	1.11	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004			Yes	2.21	J	Yes	0.0025	U	No	49.2	J	Yes	0.0739		Yes	1.09	J	Yes	5.44	J	Yes	1.09	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001			Yes	3.75	J	Yes	0.00272	U	No	145	J	Yes	0.174		Yes	3.71		Yes	19.9	J	Yes	3.9	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002			Yes	0.0247	U	No	0.00486	U	No	123	J	Yes	0.137		Yes	2.59	J	Yes	16.7	J	Yes	2.75	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003			Yes	1.92	J	Yes	0.00215	U	No	46.3	J	Yes	0.039		Yes	0.806	J	Yes	4.94	J	Yes	0.937	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004			Yes	0.364	J	Yes	0.000254	U	No	8.84	J	Yes	0.0109		Yes	0.156		Yes	0.921	J	Yes	0.179	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001			Yes	1.2	J	Yes	0.000442	U	No	32.6	J	Yes	0.0294		Yes	0.686		Yes	4.25	J	Yes	0.771	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002			Yes	1.43	J	Yes	0.000472	U	No	37.8	J	Yes	0.0339		Yes	0.677	J	Yes	0.00273	U	No	0.798	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-192			PCB-193			PCB-194			PCB-195			PCB-196			PCB-197			PCB-198			PCB-199	
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg	
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.00529	U	No	C180			8.85	J	Yes	7.01	J	Yes	5.31	J	Yes	0.468		Yes	18.5	J	Yes	C198	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.00389	U	No	C180			8.06	J	Yes	7.47	J	Yes	3.78	J	Yes	0.39		Yes	16.1	J	Yes	C198	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	0.00476	U	No	C180			8.59	J	Yes	7.23	J	Yes	4.8	J	Yes	0.491		Yes	19	J	Yes	C198	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	0.00845	U	No	C180			18.2	J	Yes	24.3	J	Yes	9.38	J	Yes	1.14		Yes	45.6	J	Yes	C198	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	0.0067	U	No	C180			11.3	J	Yes	8.51	J	Yes	6.51	J	Yes	0.652		Yes	27.7	J	Yes	C198	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	0.00435	U	No	C180			2.59		Yes	2.37		Yes	1.04		Yes	0.131		Yes	8.29	J	Yes	C198	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.00408	U	No	C180			5.61	J	Yes	4.71	J	Yes	2.51		Yes	0.276		Yes	11.1	J	Yes	C198	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.00451	U	No	C180			8.49	J	Yes	8.85	J	Yes	3.61	J	Yes	0.435		Yes	13.2	J	Yes	C198	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.00484	U	No	C180			10.3	J	Yes	7.68	J	Yes	4.5	J	Yes	0.425		Yes	17.6	J	Yes	C198	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	0.00223	U	No	C180			1.7		Yes	1.17		Yes	0.733		Yes	0.0546		Yes	2.91		Yes	C198	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.00395	U	No	C180			7.93	J	Yes	6.62	J	Yes	4.73	J	Yes	0.479		Yes	16.6	J	Yes	C198	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.0052	U	No	C180			7.42	J	Yes	6.78	J	Yes	3.92		Yes	0.393		Yes	15.5	J	Yes	C198	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	0.00492	U	No	C180			11.2	J	Yes	10.6	J	Yes	7.1	J	Yes	0.789		Yes	28.7	J	Yes	C198	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	0.00849	U	No	C180			24.7	J	Yes	35.6	J	Yes	14.4	J	Yes	1.89		Yes	67.6	J	Yes	C198	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.00904	U	No	C180			12.9	J	Yes	8.18	J	Yes	7.39	J	Yes	0.687		Yes	29.3	J	Yes	C198	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.00527	U	No	C180			3.6		Yes	3.58		Yes	1.78		Yes	0.252		Yes	13.2	J	Yes	C198	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	0.00571	U	No	C180			8.3	J	Yes	8.16	J	Yes	3.76		Yes	0.472		Yes	16.5	J	Yes	C198	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.00665	U	No	C180			10.7	J	Yes	9.69	J	Yes	5.62	J	Yes	0.594		Yes	20.8	J	Yes	C198	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.00734	U	No	C180			12.4	J	Yes	9.19	J	Yes	5.8	J	Yes	0.506		Yes	22.1	J	Yes	C198	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	0.00338	U	No	C180			2.35		Yes	1.86		Yes	1.33		Yes	0.099		Yes	5.41		Yes	C198	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.00453	U	No	C180			5.2	J	Yes	3.92	J	Yes	2.6		Yes	0.237		Yes	9.43	J	Yes	C198	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	0.00592	U	No	C180			3.39		Yes	4.7	J	Yes	3.89	J	Yes	0.615		Yes	11.6	J	Yes	C198	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.0107	U	No	C180			3.92	J	Yes	2.94		Yes	2.11		Yes	0.232		Yes	6.65		Yes	C198	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.00312	U	No	C180			2		Yes	2.18		Yes	0.92		Yes	0.166		Yes	3.83		Yes	C198	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.00355	U	No	C180			3.99	J	Yes	3.3		Yes	2.03		Yes	0.233		Yes	7.2		Yes	C198	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	0.00549	U	No	C180			9.05	J	Yes	7.14	J	Yes	4.79	J	Yes	0.502		Yes	19.1	J	Yes	C198	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.00234	U	No	C180			8.43	J	Yes	6.83	J	Yes	5.05	J	Yes	0.473		Yes	17.6	J	Yes	C198	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.00226	U	No	C180			7.75	J	Yes	7.14	J	Yes	3.85	J	Yes	0.391		Yes	15.8	J	Yes	C198	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	0.00242	U	No	C180			9.82	J	Yes	8.82	J	Yes	5.89	J	Yes	0.632		Yes	23.6	J	Yes	C198	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	0.00423	U	No	C180			21.1	J	Yes	29.4	J	Yes	11.6	J	Yes	1.48		Yes	55.5	J	Yes	C198	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	0.00394	U	No	C180			12.1	J	Yes	8.34	J	Yes	6.95	J	Yes	0.67		Yes	28.5	J	Yes	C198	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	0.00236	U	No	C180			3		Yes	2.86		Yes	1.34		Yes	0.18		Yes	10.3	J	Yes	C198	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.00241	U	No	C180			6.82	J	Yes	6.26	J	Yes	3.07		Yes	0.364		Yes	13.5	J	Yes	C198	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.00275	U	No	C180			9.5	J	Yes	9.24	J	Yes	4.53	J	Yes	0.508		Yes	16.7	J	Yes	C198	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.00294	U	No	C180			11.2	J	Yes	8.3	J	Yes	5.04	J	Yes	0.458		Yes	19.5	J	Yes	C198	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.0014	U	No	C180			2.02		Yes	1.51		Yes	1.02		Yes	0.0763		Yes	4.13		Yes	C198	
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	0.00207	U	No	C180			0.946		Yes	1		Yes	0.494		Yes	0.0441		Yes	1.65		Yes	C198	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.000771	U	No	C180			0.594		Yes	0.377		Yes	0.307		Yes	0.0212		Yes	1.07		Yes	C198	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.000407	U	No	C180			0.245		Yes	0.144		Yes	0.132		Yes	0.00632		Yes	0.526		Yes	C198	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.000471	U	No	C180			0.347		Yes	0.167		Yes	0.178		Yes	0.00759		Yes	0.559		Yes	C198	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.000854	U	No	C180			0.576		Yes	0.441		Yes	0.267		Yes	0.0225		Yes	0.991		Yes	C198	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.000546	U	No	C180			0.209		Yes	0.09		Yes	0.108		Yes	0.00539		Yes	0.351		Yes	C198	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.000297	U	No	C180			0.0413		Yes	0.018		Yes	0.0192		Yes	0.00155		Yes	0.0689		Yes	C198	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	0.00593	U	No	C180			6.21	J	Yes	5.34	J	Yes	2.34		Yes	0.214		Yes	8.48	J	Yes	C198	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	0.0025	U	No	C180			1.73	J	Yes	1.38		Yes	0.579		Yes	0.0454		Yes	2.69		Yes	C198	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	0.00411	U	No	C180			3.33	J	Yes	2.85		Yes	1.16		Yes	0.105		Yes	4.29		Yes	C198	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	0.006	U	No	C180			1.47	J	Yes	1.29		Yes	0.664		Yes	0.0496		Yes	2.58		Yes	C198	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.00427	U	No	C180			3.64	J	Yes	2.75		Yes	1.67		Yes	0.138		Yes	5.72		Yes	C198	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	0.00282	U	No	C180			1.36	J	Yes	1.2		Yes	0.525		Yes	0.0366		Yes	2.16		Yes	C198	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	0.0189	U	No	C180			15.1	J	Yes	8.48	J	Yes	10.9	J	Yes	0.679		Yes	36.3	J	Yes	C198	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	0.00798	U	No	C180			6.8	J	Yes	4.75	J	Yes	3.19		Yes	0.236		Yes	13	J	Yes	C198	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	0.0137	U	No	C180			15.7	J	Yes	10.2	J	Yes	8.88	J	Yes	0.517		Yes	28.7	J	Yes	C198	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	0.0204	U	No	C180			34.8	J	Yes	18.8	J	Yes	19.2	J	Yes	1.01		Yes	44.7	J	Yes	C198	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	0.0253	U	No	C180			23.2	J	Yes	15	J	Yes	11.3	J	Yes	0.664		Yes	33	J	Yes	C198	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	0.00209	U	No	C180			6.71	J	Yes	3.99	J	Yes	4.02	J	Yes	0.255		Yes	11.9	J	Yes	C198	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	0.00301	U	No	C180			8.17	J	Yes	5.97	J	Yes	5.05	J	Yes	0.348		Yes	15.9	J	Yes	C198	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	0.00471	U	No	C180			16.4	J	Yes	12.3	J	Yes	10.2	J	Yes	0.555		Yes	29.6	J	Yes	C198	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	0.00213	U	No	C180			2.83		Yes	1.95		Yes	1.52		Yes	0.129		Yes	5.79		Yes	C198	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	0.00191	U	No	C180			4.46	J	Yes	3.16	J	Yes	2.25	J	Yes	0.148		Yes	7.2	J	Yes	C198	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	0.0023	U	No	C180			9.97	J	Yes	5.67	J	Yes	5.12	J	Yes	0.249		Yes	15.1	J	Yes	C198	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	0.00387	U	No	C180			13	J	Yes	9.23	J	Yes	6.74	J	Yes	0.39		Yes	20.7	J	Yes	C198	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	0.00318	U	No	C180			12.9	J	Yes	8.39	J	Yes	6.98	J	Yes	0.375		Yes	16.4	J	Yes	C198	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	0.00239	U	No	C180			6.59	J	Yes	4.07	J	Yes	3.93		Yes	0.216		Yes	10.8	J	Yes	C198	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	0.00408	U	No	C180			7.15	J	Yes	5.64	J	Yes	5.02	J	Yes	0.312		Yes	13.8	J	Yes	C198	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	0.016	U	No	C180			26.6	J	Yes	14.4	J	Yes	12.3	J	Yes	0.687		Yes	37.8	J	Yes	C198	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	0.00582	U	No	C180			4.65	J	Yes	4.37	J	Yes	2.22		Yes	0.186	EMPC-J	Yes	9.36	J	Yes	C198	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	0.0187	U	No	C180			25.9	J	Yes	16	J	Yes	14.9	J	Yes	0.967		Yes	45	J	Yes	C198	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	0.00656	U	No	C180			2.76		Yes	2.6		Yes	1.41		Yes	0.111		Yes	5.52		Yes	C198	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	0.0192	U	No	C180			28.1	J	Yes	18.6	J	Yes	14.8	J	Yes	0.825		Yes	46.4	J	Yes	C198	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	0.00667	U	No	C180			12.7	J	Yes	7.6	J	Yes	8.85	J	Yes	0.563		Yes	29.2	J	Yes	C198	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	0.00308	U	No	C180			5.57	J	Yes	3.88	J	Yes	2.67		Yes	0.203		Yes	10.8	J	Yes	C198	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	0.00531	U	No	C180			14.9	J	Yes	9.9	J	Yes	8.21	J	Yes	0.477		Yes	26.2	J	Yes	C198	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	0.00753	U	No	C180			28	J	Yes	15.6	J	Yes	15.4	J	Yes	0.813		Yes	35.9	J	Yes	C198	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	0.00893	U	No	C180			17.8	J	Yes	11.4	J	Yes	8.9	J	Yes	0.518		Yes	25.8	J	Yes	C198	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	0.00908	U	No	C180			14.9	J	Yes	12.4	J	Yes	6.38	J	Yes	0.551		Yes	22.1	J	Yes	C198	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	0.0154	U	No	C180			49.8	J	Yes	45.7	J	Yes	15.1	J	Yes	2.22		Yes	63.2	J	Yes	C198	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	0.0198	U	No	C180			30.2	J	Yes	31.3	J	Yes	11.2	J	Yes	1.75		Yes	48	J	Yes	C198	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	0.00851	U	No	C180			10.1	J	Yes	8.99	J	Yes	4.27	J	Yes	0.418		Yes	15.3	J	Yes	C198	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.00139	U	No	C180			2.46		Yes	1.69		Yes	1.1		Yes	0.0857		Yes	3.68		Yes	C198	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.00298	U	No	C180			9.02	J	Yes	5.35	J	Yes	4.08	J	Yes	0.353		Yes	13.5	J	Yes	C198	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	0.00271	U	No	C180			8.77	J	Yes	7.24	J	Yes	3.82		Yes	0.436		Yes	13.5	J	Yes	C198	

BERA Tissue Chemistry Data from Above Dundee Dam

						PCB-200			PCB-201			PCB-202			PCB-203			PCB-204			PCB-205			PCB-206			
						µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01		0.273		Yes	1.38		Yes	4.32	J	Yes	10.5	J	Yes	0.0141		Yes	0.561		Yes	7.09	J	Yes	0.657
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02		0.306		Yes	1.4		Yes	4.61	J	Yes	8.22	J	Yes	0.0174		Yes	0.536		Yes	7.71	J	Yes	0.692
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03		0.303		Yes	1.66		Yes	5.19	J	Yes	10.2	J	Yes	0.019		Yes	0.574		Yes	8.39	J	Yes	0.744
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04		0.634		Yes	3.53		Yes	12.3	J	Yes	22.3	J	Yes	0.0421		Yes	1.67		Yes	15.3	J	Yes	1.27
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008		0.448		Yes	2.38		Yes	7.98	J	Yes	14.6	J	Yes	0.0299		Yes	0.754		Yes	13.8	J	Yes	1.18
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05		0.133		Yes	0.444		Yes	1.99		Yes	3.05		Yes	0.00629		Yes	0.182		Yes	2.02	J	Yes	0.173
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002		0.133		Yes	0.877		Yes	2.82		Yes	5.67	J	Yes	0.0104		Yes	0.387		Yes	3.64	J	Yes	0.353
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006		0.155		Yes	1.42		Yes	3.76	J	Yes	7.87	J	Yes	0.0116		Yes	0.608		Yes	5.12	J	Yes	0.48
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007		0.207		Yes	1.45		Yes	4.34	J	Yes	9.96	J	Yes	0.0158		Yes	0.719		Yes	6.54	J	Yes	0.563
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026		0.203		Yes	0.275		Yes	0.858		Yes	1.25		Yes	0.0015	EMPC-J	Yes	0.0879		Yes	0.537	J	Yes	0.0696
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01		0.192		Yes	1.22		Yes	3.39		Yes	9.18	J	Yes	0.0138		Yes	0.502		Yes	6.53	J	Yes	0.533
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02		0.355		Yes	1.26		Yes	3.7		Yes	7.93	J	Yes	0.0173		Yes	0.473		Yes	7.16	J	Yes	0.575
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03		0.433		Yes	2.34		Yes	6.87	J	Yes	14.9	J	Yes	0.0273		Yes	0.738		Yes	11	J	Yes	0.957
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04		0.762		Yes	4.86	J	Yes	15.4	J	Yes	32.6	J	Yes	0.066		Yes	2.1		Yes	20.2	J	Yes	1.55
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008		0.359		Yes	2.21		Yes	6.95	J	Yes	16.3	J	Yes	0.0281		Yes	0.789		Yes	13.1	J	Yes	1.15
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05		0.169		Yes	0.675		Yes	2.69		Yes	5.04	J	Yes	0.00801		Yes	0.255		Yes	2.93	J	Yes	0.259
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002		0.174		Yes	1.25		Yes	3.78		Yes	8.2	J	Yes	0.0134		Yes	0.552		Yes	5.62	J	Yes	0.481
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006		0.229		Yes	1.85		Yes	4.38	J	Yes	11.4	J	Yes	0.0171		Yes	0.711		Yes	6.37	J	Yes	0.541
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007		0.217		Yes	1.66		Yes	4.51	J	Yes	12.6	J	Yes	0.0167		Yes	0.833		Yes	7.06	J	Yes	0.627
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026		0.328		Yes	0.42		Yes	1.2	J	Yes	2.32		Yes	0.00187	EMPC-J	Yes	0.121		Yes	0.768	J	Yes	0.0981
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011		0.0804		Yes	0.756		Yes	2.5		Yes	5.35	J	Yes	0.00891		Yes	0.34		Yes	3.58	J	Yes	0.355
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019		0.188		Yes	2.08		Yes	5.41	J	Yes	10.1	J	Yes	0.0148		Yes	0.493		Yes	3.85	J	Yes	0.581
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001		0.00651	U	No	0.589		Yes	1.82		Yes	4.45	J	Yes	0.00633	U	No	0.28		Yes	2.55	J	Yes	0.262
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003		0.00112	U	No	0.372		Yes	1.59		Yes	2.38		Yes	0.00508		Yes	0.149		Yes	1.34	J	Yes	0.146
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005		0.0625		Yes	0.693		Yes	2.07		Yes	4.54	J	Yes	0.00788		Yes	0.27		Yes	2.76	J	Yes	0.264
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022		0.245		Yes	1.34		Yes	4.72	J	Yes	10.9	J	Yes	0.0156		Yes	0.75		Yes	7.18	J	Yes	0.633
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01		0.236		Yes	1.31		Yes	3.9	J	Yes	9.9	J	Yes	0.014		Yes	0.534		Yes	6.83	J	Yes	0.6
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02		0.33		Yes	1.33		Yes	4.17	J	Yes	8.08	J	Yes	0.0174		Yes	0.506		Yes	7.45	J	Yes	0.636
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03		0.364		Yes	1.98		Yes	5.98	J	Yes	12.4	J	Yes	0.0229		Yes	0.652		Yes	9.62	J	Yes	0.845
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04		0.691		Yes	4.13	J	Yes	13.7	J	Yes	26.9	J	Yes	0.0528		Yes	1.86		Yes	17.5	J	Yes	1.4
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008		0.403		Yes	2.29		Yes	7.46	J	Yes	15.5	J	Yes	0.029		Yes	0.772		Yes	13.4	J	Yes	1.16
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05		0.147		Yes	0.537		Yes	2.27		Yes	3.85	J	Yes	0.00698		Yes	0.211		Yes	2.38	J	Yes	0.207
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002		0.151		Yes	1.04		Yes	3.25		Yes	6.81	J	Yes	0.0118		Yes	0.461		Yes	4.53	J	Yes	0.411
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006		0.189		Yes	1.62		Yes	4.04	J	Yes	9.49	J	Yes	0.0141		Yes	0.655		Yes	5.69	J	Yes	0.508
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007		0.211		Yes	1.54		Yes	4.41	J	Yes	11.1	J	Yes	0.0162		Yes	0.766		Yes	6.75	J	Yes	0.589
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026		0.264		Yes	0.346		Yes	1.02	J	Yes	1.77		Yes	0.00168	EMPC-J	Yes	0.104		Yes	0.65	J	Yes	0.0835
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01		0.123		Yes	0.189		Yes	0.41	J	Yes	0.611		Yes	0.000961	U	No	0.0405		Yes	0.474	J	Yes	0.0581
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013		0.0712		Yes	0.104		Yes	0.257	J	Yes	0.594		Yes	0.000974		Yes	0.0312		Yes	0.631	J	Yes	0.0553
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044		0.0329		Yes	0.0424		Yes	0.111	J	Yes	0.284		Yes	0.000428	EMPC-J	Yes	0.015		Yes	0.257	J	Yes	0.0226
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061		0.0286		Yes	0.0476		Yes	0.0999	J	Yes	0.337		Yes	0.00048	J	Yes	0.0174		Yes	0.3	J	Yes	0.0258
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007		0.0737		Yes	0.0922		Yes	0.193	J	Yes	0.522		Yes	0.000689	EMPC-J	Yes	0.0308		Yes	0.422	J	Yes	0.037
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058		0.0201		Yes	0.03		Yes	0.0591	J	Yes	0.209		Yes	0.000181	U	No	0.0107		Yes	0.127	J	Yes	0.0138
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066		0.00438		Yes	0.0052		Yes	0.0119	J	Yes	0.0375		Yes	0.000179	U	No	0.00206		Yes	0.0249	J	Yes	0.00249
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035		0.247		Yes	0.704		Yes	1.82		Yes	4.79	J	Yes	0.00818	EMPC-J	Yes	0.322		Yes	5.89	J	Yes	0.472
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055		0.212		Yes	0.286		Yes	0.809		Yes	1.37		Yes	0.00336	EMPC-J	Yes	0.0923		Yes	2.36	J	Yes	0.192
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057		0.476		Yes	0.523		Yes	1.06		Yes	2.12		Yes	0.00336		Yes	0.173		Yes	2.42	J	Yes	0.231
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004		0.212		Yes	0.261		Yes	0.573		Yes	1.37		Yes	0.00288	U	No	0.0776		Yes	1.28	J	Yes	0.109
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006		0.311		Yes	0.543		Yes	1.05		Yes	3.48		Yes	0.00453		Yes	0.227		Yes	2.11	J	Yes	0.19
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052		0.197		Yes	0.223		Yes	0.494		Yes	1.06		Yes	0.00185	U	No	0.0727		Yes	1.09	J	Yes	0.0917
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008		2.69		Yes	3.03		Yes	7.54	J	Yes	21.3	J	Yes	0.0117	U	No	0.972		Yes	13	J	Yes	2.1
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011		0.956		Yes	1.14		Yes	3.53		Yes	7.17	J	Yes	0.0116		Yes	0.381		Yes	7.97	J	Yes	0.648
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018		1.74		Yes	2.29		Yes	5.34	J	Yes	15.5	J	Yes	0.00918	U	No	0.846		Yes	12.1	J	Yes	1.04
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028		3.3		Yes	3.88	J	Yes	6.65	J	Yes	32.5	J	Yes	0.0154	U	No	1.8		Yes	13.5	J	Yes	1.64
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029		2.3		Yes	2.79		Yes	5.57	J	Yes	20.6	J	Yes	0.0114	U	No	1.26		Yes	13.5	J	Yes	1.37
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002		0.703		Yes	0.994		Yes	2.19	J	Yes	7.31	J	Yes	0.00643		Yes	0.346		Yes	6.27	J	Yes	0.599
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008		1.05		Yes	1.39		Yes	3.63	J	Yes	9.8	J	Yes	0.00994		Yes	0.452		Yes	8.3	J	Yes	0.784
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009		1.98		Yes	2.44		Yes	5.12	J	Yes	18.8	J	Yes	0.019		Yes	0.856		Yes	12.3	J	Yes	1.12
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011		0.348		Yes	0.49		Yes	1.52	J	Yes	3.39		Yes	0.00425	EMPC-J	Yes	0.141		Yes	3.65	J	Yes	0.283
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012		0.5	J	Yes	0.596	J	Yes	1.5	J	Yes	4.53	J	Yes	0.00724	J	Yes	0.218	J	Yes	4.38	J	Yes	0.357
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014		0.829		Yes	1.16		Yes	2.47	J	Yes	10.5	J	Yes	0.00355		Yes	0.454		Yes	9.47	J	Yes	0.751
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018		1.1		Yes	1.64		Yes	3.82	J	Yes	11.9	J	Yes	0.00777		Yes	0.643		Yes	10.3	J	Yes	0.833
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028		1.06		Yes	1.4		Yes	2.34	J	Yes	11.3	J	Yes	0.00456		Yes	0.633		Yes	7.07	J	Yes	0.635
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029		0.728		Yes	0.935		Yes	1.9	J	Yes	7.04	J	Yes	0.0042		Yes	0.349		Yes	4.77	J	Yes	0.437
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030		1.2		Yes	1.51		Yes	2.8	J	Yes	9.9	J	Yes	0.0112		Yes	0.458		Yes	4.43	J	Yes	0.494
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001		2.65		Yes	3.12		Yes	7.35	J	Yes	22.6	J	Yes	0.034		Yes	1.35		Yes	16.2	J	Yes	1.81
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003		0.757		Yes	0.865	J	Yes	2.46	J	Yes	4.61	J	Yes	0.00815	EMPC-J	Yes	0.239		Yes	4.49	J	Yes	0.415
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005		2.39		Yes	3.3		Yes	8.37	J	Yes	28	J	Yes	0.041		Yes	1.33		Yes	22.9	J	Yes	2.26
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007		0.445		Yes	0.512		Yes	1.42		Yes	2.82		Yes	0.00613	U	No	0.168		Yes	2.86	J	Yes	0.241
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016		2.84		Yes	3.26		Yes	7.14	J	Yes	26.4	J	Yes	0.0356		Yes	1.47		Yes	18.5	J	Yes	2.13
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008		2.12		Yes	2.46		Yes	6.17	J	Yes	17.3	J	Yes	0.00728		Yes	0.79		Yes	11.4	J	Yes	1.64
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011		0.767		Yes	0.938		Yes	2.9	J	Yes	5.99	J	Yes	0.00931	EMPC-J	Yes	0.306		Yes	6.63	J	Yes	0.534
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018		1.54		Yes	2.09		Yes	4.86	J	Yes	14.4	J	Yes	0.00559		Yes	0.782		Yes	11.5	J	Yes	0.975
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028		2.61		Yes	3.11	J	Yes	5.31	J	Yes	25.9	J	Yes	0.00673		Yes	1.44		Yes	11.5	J	Yes	1.33
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029		1.79		Yes	2.19		Yes	4.38	J	Yes	16.2	J	Yes	0.00521		Yes	0.964		Yes	10.7	J	Yes	1.07
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004		1.29		Yes	2.04		Yes	3.84		Yes	12.5	J	Yes	0.0231		Yes	0.779		Yes	8.24	J	Yes	0.961
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001		0.601		Yes	5.63	J	Yes	10.4	J	Yes	31.2	J	Yes	0.0582		Yes	2.74		Yes	24.9	J	Yes	2.66
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002		0.743		Yes	4.64	J	Yes	8.72	J	Yes	25.4	J	Yes	0.0436		Yes	1.82		Yes	15.4	J	Yes	1.64
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003		0.391		Yes	1.43		Yes	2.88		Yes	9.43	J	Yes	0.00927		Yes	0.647		Yes	4.89	J	Yes	0.432
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004		0.196		Yes	0.333		Yes	0.646	J	Yes	2.03		Yes	0.00354	EMPC-J	Yes	0.116		Yes	1.65	J	Yes	0.169
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001		0.136		Yes	0.95		Yes	1.71	J	Yes	8.43	J	Yes	0.01		Yes	0.473		Yes	5.08	J	Yes	0.538
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002		0.205		Yes	1.18		Yes	2.21	J	Yes	8.25	J	Yes	0.00964		Yes	0.491		Yes	5.02	J	Yes	0.479

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-207		PCB-208			Decachlorobiphenyl			Total PCB Congeners			Total PCB Congeners (ND=0.5DL)			Total PCB Congeners (ND=DL)		
					µg/kg		µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	J	Yes	3.3	J	Yes	3.6	J	Yes	1160	J	Yes	1160	J	Yes	1160	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	J	Yes	3.94	J	Yes	4.59	J	Yes	1010	J	Yes	1010	J	Yes	1010	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	J	Yes	4.3	J	Yes	5.26	J	Yes	1110	J	Yes	1110	J	Yes	1110	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	J	Yes	8.88	J	Yes	9.58	J	Yes	1730	J	Yes	1730	J	Yes	1730	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008		Yes	7.26	J	Yes	10	J	Yes	1330	J	Yes	1330	J	Yes	1330	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	J	Yes	1.2	J	Yes	1.3		Yes	553	J	Yes	553	J	Yes	553	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002		Yes	1.8		Yes	2.02		Yes	661	J	Yes	661	J	Yes	661	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	J	Yes	2.33	J	Yes	2.49		Yes	971	J	Yes	971	J	Yes	971	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007		Yes	2.77		Yes	3.19		Yes	1120	J	Yes	1120	J	Yes	1120	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	J	Yes	0.275	J	Yes	0.216		Yes	433	J	Yes	433	J	Yes	433	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01		Yes	2.79		Yes	3.12		Yes	808	J	Yes	808	J	Yes	808	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02		Yes	3.28		Yes	4.08	J	Yes	849	J	Yes	849	J	Yes	849	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03		Yes	5.57	J	Yes	6.9	J	Yes	1350	J	Yes	1350	J	Yes	1350	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	J	Yes	10.9	J	Yes	12	J	Yes	2070	J	Yes	2070	J	Yes	2070	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008		Yes	6.48	J	Yes	8.32	J	Yes	1230	J	Yes	1230	J	Yes	1230	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05		Yes	1.63		Yes	1.59		Yes	740	J	Yes	740	J	Yes	741	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	J	Yes	2.46	J	Yes	2.68	J	Yes	905	J	Yes	905	J	Yes	905	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006		Yes	2.7		Yes	2.88		Yes	1060	J	Yes	1060	J	Yes	1060	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007		Yes	2.92		Yes	2.98		Yes	1250	J	Yes	1250	J	Yes	1250	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026		Yes	0.368		Yes	0.297		Yes	556	J	Yes	556	J	Yes	556	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	J	Yes	1.63	J	Yes	1.91		Yes	600	J	Yes	600	J	Yes	600	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019		Yes	2.18		Yes	2.51		Yes	1160	J	Yes	1160	J	Yes	1160	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	J	Yes	1.1	J	Yes	1.13		Yes	419	J	Yes	420	J	Yes	420	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	J	Yes	0.663	J	Yes	0.66	J	Yes	206	J	Yes	206	J	Yes	206	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	J	Yes	1.19	J	Yes	1.26		Yes	531	J	Yes	531	J	Yes	531	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	J	Yes	3.47	J	Yes	4.15	J	Yes	1060	J	Yes	1060	J	Yes	1060	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	J	Yes	3.07	J	Yes	3.38	J	Yes	999	J	Yes	999	J	Yes	999	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	J	Yes	3.62	J	Yes	4.35	J	Yes	933	J	Yes	933	J	Yes	933	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	J	Yes	4.9	J	Yes	6.04	J	Yes	1220	J	Yes	1220	J	Yes	1220	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	J	Yes	9.78	J	Yes	10.7	J	Yes	1880	J	Yes	1880	J	Yes	1880	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008		Yes	6.87	J	Yes	9.16	J	Yes	1280	J	Yes	1280	J	Yes	1280	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	J	Yes	1.37	J	Yes	1.42		Yes	628	J	Yes	628	J	Yes	628	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	J	Yes	2.1	J	Yes	2.32	J	Yes	771	J	Yes	771	J	Yes	771	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	J	Yes	2.5	J	Yes	2.67		Yes	1010	J	Yes	1010	J	Yes	1010	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007		Yes	2.83		Yes	3.1		Yes	1170	J	Yes	1170	J	Yes	1170	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	J	Yes	0.32	J	Yes	0.256		Yes	493	J	Yes	493	J	Yes	493	J	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	J	Yes	0.255	J	Yes	0.278	J	Yes	219	J	Yes	219	J	Yes	219	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	J	Yes	0.297	J	Yes	0.428	J	Yes	123	J	Yes	123	J	Yes	123	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044		Yes	0.131		Yes	0.155		Yes	41.8	J	Yes	41.8	J	Yes	41.8	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061		Yes	0.115		Yes	0.151		Yes	35.8	J	Yes	35.8	J	Yes	35.8	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	J	Yes	0.201	J	Yes	0.286	J	Yes	106	J	Yes	106	J	Yes	106	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058		Yes	0.0558		Yes	0.0541		Yes	19.7	J	Yes	19.8	J	Yes	19.8	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066		Yes	0.0112		Yes	0.0146		Yes	9	J	Yes	9.01	J	Yes	9.02	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	J	Yes	2.48	J	Yes	3.49	J	Yes	541	J	Yes	541	J	Yes	541	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	J	Yes	1.27	J	Yes	1.79	J	Yes	183	J	Yes	183	J	Yes	183	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	J	Yes	1.15	J	Yes	1.79	J	Yes	614	J	Yes	614	J	Yes	614	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	J	Yes	0.549	J	Yes	0.835		Yes	240	J	Yes	240	J	Yes	240	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	J	Yes	0.83	J	Yes	0.946	J	Yes	419	J	Yes	419	J	Yes	419	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	J	Yes	0.484	J	Yes	0.692	J	Yes	198	J	Yes	198	J	Yes	198	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008		Yes	8.73	J	Yes	12.9	J	Yes	2720	J	Yes	2720	J	Yes	2720	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011		Yes	3.81		Yes	4.47	J	Yes	1140	J	Yes	1140	J	Yes	1140	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018		Yes	5.18	J	Yes	7.66	J	Yes	1680	J	Yes	1680	J	Yes	1680	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028		Yes	5.51	J	Yes	8.68	J	Yes	2040	J	Yes	2040	J	Yes	2040	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029		Yes	5.76	J	Yes	9.44	J	Yes	2130	J	Yes	2130	J	Yes	2130	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002		Yes	3.01		Yes	5.4	J	Yes	735	J	Yes	735	J	Yes	735	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008		Yes	4.54	J	Yes	7.06	J	Yes	1310	J	Yes	1310	J	Yes	1310	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	J	Yes	6.19	J	Yes	10.1	J	Yes	2030	J	Yes	2030	J	Yes	2030	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	J	Yes	1.78	J	Yes	2.35	J	Yes	515	J	Yes	515	J	Yes	515	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	J	Yes	2.15	J	Yes	3.54	J	Yes	489	J	Yes	489	J	Yes	489	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014		Yes	3.35		Yes	4.17	J	Yes	645	J	Yes	645	J	Yes	645	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	J	Yes	4.52	J	Yes	6.96	J	Yes	1190	J	Yes	1190	J	Yes	1190	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	J	Yes	2.45	J	Yes	4.1	J	Yes	904	J	Yes	904	J	Yes	904	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	J	Yes	1.94	J	Yes	3.18		Yes	686	J	Yes	686	J	Yes	686	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030		Yes	2.04		Yes	2.94		Yes	1420	J	Yes	1420	J	Yes	1420	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001		Yes	9.26	J	Yes	14.8	J	Yes	2330	J	Yes	2330	J	Yes	2330	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	J	Yes	2.56	J	Yes	2.9	J	Yes	1080	J	Yes	1080	J	Yes	1080	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005		Yes	11.1	J	Yes	17.9	J	Yes	2410	J	Yes	2410	J	Yes	2410	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	J	Yes	1.47	J	Yes	2.11	J	Yes	755	J	Yes	755	J	Yes	755	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	J	Yes	10.6	J	Yes	15.9	J	Yes	2560	J	Yes	2560	J	Yes	2560	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008		Yes	7.26	J	Yes	10.9	J	Yes	2230	J	Yes	2230	J	Yes	2230	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	J	Yes	3.18	J	Yes	3.81	J	Yes	946	J	Yes	946	J	Yes	946	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	J	Yes	4.97	J	Yes	7.44	J	Yes	1530	J	Yes	1530	J	Yes	1530	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	J	Yes	4.56	J	Yes	7.26	J	Yes	1690	J	Yes	1690	J	Yes	1690	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	J	Yes	4.52	J	Yes	7.41	J	Yes	1660	J	Yes	1660	J	Yes	1660	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	J	Yes	3.68	J	Yes	4.14	J	Yes	1620	J	Yes	1620	J	Yes	1620	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001		Yes	10.6	J	Yes	12.3	J	Yes	2770	J	Yes	2770	J	Yes	2770	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	J	Yes	6.97	J	Yes	6.85	J	Yes	2540	J	Yes	2540	J	Yes	2540	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	J	Yes	1.83	J	Yes	1.86	J	Yes	1110	J	Yes	1110	J	Yes	1110	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004		Yes	0.678		Yes	0.738	J	Yes	285	J	Yes	285	J	Yes	285	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001		Yes	2		Yes	2.33	J	Yes	625	J	Yes	625	J	Yes	625	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	J	Yes	2.05	J	Yes	2.24	J	Yes	791	J	Yes	791	J	Yes	791	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	PCB TEQ-Bird ng/kg			PCB TEQ-Bird (ND=0.5DL) ng/kg			PCB TEQ-Bird (ND=DL) ng/kg			PCB TEQ-Bird (KM) ng/kg			PCB TEQ-Fish ng/kg			PCB TEQ-Fish (ND=0.5DL) ng/kg			PCB TEQ-Fish (ND=DL) ng/kg			PCB TEQ-Fish (ng/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	12.8	J	Yes	13.6	J	Yes	14.3	J	Yes	13.2		Yes	0.968	J	Yes	0.972	J	Yes	0.976	J	Yes	0.972	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	12.3	J	Yes	13	J	Yes	13.6	J	Yes	12.6		Yes	0.871	J	Yes	0.875	J	Yes	0.878	J	Yes	0.874	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	12.3	J	Yes	13	J	Yes	13.7	J	Yes	12.7		Yes	0.905	J	Yes	0.909	J	Yes	0.912	J	Yes	0.909	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	13.8	J	Yes	15.9	J	Yes	17.9	J	Yes	14.6		Yes	1.05	J	Yes	1.05	J	Yes	1.06	J	Yes	1.05	
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	14.6	J	Yes	16.1	J	Yes	17.7	J	Yes	15		Yes	1.11	J	Yes	1.12	J	Yes	1.12	J	Yes	1.11	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	6.78	J	Yes	7.32	J	Yes	7.85	J	Yes	6.98		Yes	0.501	J	Yes	0.503	J	Yes	0.505	J	Yes	0.503	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	9.78	J	Yes	10.2	J	Yes	10.7	J	Yes	10		Yes	0.683	J	Yes	0.685	J	Yes	0.687	J	Yes	0.684	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	13.6	J	Yes	14.4	J	Yes	15.3	J	Yes	13.9		Yes	1.01	J	Yes	1.01	J	Yes	1.02	J	Yes	1.01	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	15.4	J	Yes	16.1	J	Yes	16.7	J	Yes	15.6		Yes	1.1	J	Yes	1.1	J	Yes	1.1	J	Yes	1.1	
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	8.95	J	Yes	9.34	J	Yes	9.73	J	Yes	9.11		Yes	0.538	J	Yes	0.54	J	Yes	0.542	J	Yes	0.54	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	13.2	J	Yes	13.7	J	Yes	14.3	J	Yes	13.4		Yes	0.96	J	Yes	0.962	J	Yes	0.965	J	Yes	0.962	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	9.73	J	Yes	10.5	J	Yes	11.2	J	Yes	9.98		Yes	0.758	J	Yes	0.761	J	Yes	0.765	J	Yes	0.761	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	16.1	J	Yes	17.1	J	Yes	18	J	Yes	16.4		Yes	1.26	J	Yes	1.27	J	Yes	1.27	J	Yes	1.27	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	20.8	J	Yes	21.9	J	Yes	22.9	J	Yes	21.1		Yes	1.45	J	Yes	1.45	J	Yes	1.46	J	Yes	1.45	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	13.4	J	Yes	14.4	J	Yes	15.5	J	Yes	13.8		Yes	0.997	J	Yes	1	J	Yes	1.01	J	Yes	1	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	8.65	J	Yes	9.64	J	Yes	10.6	J	Yes	9.02		Yes	0.664	J	Yes	0.668	J	Yes	0.672	J	Yes	0.667	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	13.5	J	Yes	14.4	J	Yes	15.3	J	Yes	13.8		Yes	1	J	Yes	1.01	J	Yes	1.01	J	Yes	1.01	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	10.2	J	Yes	11.2	J	Yes	12.2	J	Yes	10.5		Yes	0.86	J	Yes	0.864	J	Yes	0.869	J	Yes	0.865	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	15.8	J	Yes	16.8	J	Yes	17.9	J	Yes	16		Yes	1.26	J	Yes	1.27	J	Yes	1.27	J	Yes	1.26	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	12.9	J	Yes	13.4	J	Yes	14	J	Yes	13.2		Yes	0.778	J	Yes	0.78	J	Yes	0.783	J	Yes	0.78	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	11.4	J	Yes	11.8	J	Yes	12.3	J	Yes	11.6		Yes	0.559	J	Yes	0.562	J	Yes	0.564	J	Yes	0.562	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	16.4	J	Yes	17.3	J	Yes	18.2	J	Yes	16.8		Yes	1.22	J	Yes	1.22	J	Yes	1.23	J	Yes	1.22	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	2.32	J	Yes	4.2	J	Yes	6.08	J	Yes	4.33		Yes	0.288	J	Yes	0.336	J	Yes	0.384	J	Yes	0.305	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	2.41	J	Yes	2.6	J	Yes	2.78	J	Yes	2.51		Yes	0.138	J	Yes	0.148	J	Yes	0.157	J	Yes	0.143	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	7.24	J	Yes	7.57	J	Yes	7.9	J	Yes	7.34		Yes	0.523	J	Yes	0.525	J	Yes	0.527	J	Yes	0.525	
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	14.5	J	Yes	15.1	J	Yes	15.8	J	Yes	14.8		Yes	1.03	J	Yes	1.03	J	Yes	1.03	J	Yes	1.03	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	13	J	Yes	13.6	J	Yes	14.3	J	Yes	13.3		Yes	0.964	J	Yes	0.967	J	Yes	0.971	J	Yes	0.967	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	11.1	J	Yes	11.8	J	Yes	12.4	J	Yes	11.3		Yes	0.817	J	Yes	0.82	J	Yes	0.824	J	Yes	0.82	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	14.1	J	Yes	14.9	J	Yes	15.7	J	Yes	14.5		Yes	1.07	J	Yes	1.08	J	Yes	1.08	J	Yes	1.08	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	16.9	J	Yes	18.6	J	Yes	20.1	J	Yes	17.5		Yes	1.23	J	Yes	1.23	J	Yes	1.24	J	Yes	1.23	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	14	J	Yes	15.2	J	Yes	16.6	J	Yes	14.4		Yes	1.05	J	Yes	1.06	J	Yes	1.06	J	Yes	1.05	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	7.53	J	Yes	8.25	J	Yes	8.95	J	Yes	7.8		Yes	0.566	J	Yes	0.569	J	Yes	0.572	J	Yes	0.569	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	11.5	J	Yes	12.1	J	Yes	12.8	J	Yes	11.7		Yes	0.826	J	Yes	0.831	J	Yes	0.832	J	Yes	0.831	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	12	J	Yes	12.9	J	Yes	13.9	J	Yes	12.3		Yes	0.941	J	Yes	0.943	J	Yes	0.951	J	Yes	0.943	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	15.6	J	Yes	16.4	J	Yes	17.2	J	Yes	15.8		Yes	1.17	J	Yes	1.17	J	Yes	1.17	J	Yes	1.17	
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	10.9	J	Yes	11.3	J	Yes	11.8	J	Yes	11.1		Yes	0.655	J	Yes	0.657	J	Yes	0.66	J	Yes	0.657	
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	10.9	J	Yes	10.9	J	Yes	10.9	J	Yes	10.9		Yes	0.275	J	Yes	0.275	J	Yes	0.275	J	Yes	0.275	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	7.67	J	Yes	7.67	J	Yes	7.67	J	Yes	7.67		Yes	0.113	J	Yes	0.113	J	Yes	0.113	J	Yes	0.113	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	2.22		Yes	2.22		Yes	2.22		Yes	2.22		Yes	0.0539		Yes	0.0539		Yes	0.054		Yes	0.054	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	1.87		Yes	1.87		Yes	1.87		Yes	1.87		Yes	0.0442		Yes	0.0443		Yes	0.0443		Yes	0.0443	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	6.37	J	Yes	6.38	J	Yes	6.38	J	Yes	6.38		Yes	0.0996	J	Yes	0.0996	J	Yes	0.0997	J	Yes	0.0997	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.901		Yes	0.902		Yes	0.902		Yes	0.902		Yes	0.0291		Yes	0.0291		Yes	0.0291		Yes	0.0291	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.567		Yes	0.567		Yes	0.568		Yes	0.567		Yes	0.0112		Yes	0.0112		Yes	0.0112		Yes	0.0112	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	18.9	J	Yes	19	J	Yes	19	J	Yes	19		Yes	0.675	J	Yes	0.676	J	Yes	0.676	J	Yes	0.676	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	9.03	J	Yes	9.04	J	Yes	9.04	J	Yes	9.04		Yes	0.261	J	Yes	0.261	J	Yes	0.261	J	Yes	0.261	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	27.3	J	Yes	27.3	J	Yes	27.3	J	Yes	27.3		Yes	0.476	J	Yes	0.476	J	Yes	0.477	J	Yes	0.477	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	20.6	J	Yes	20.6	J	Yes	20.6	J	Yes	20.6		Yes	0.368	J	Yes	0.368	J	Yes	0.368	J	Yes	0.368	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	18.2	J	Yes	18.2	J	Yes	18.2	J	Yes	18.2		Yes	0.595	J	Yes	0.596	J	Yes	0.596	J	Yes	0.596	
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	11.1	J	Yes	11.1	J	Yes	11.2	J	Yes	11.1		Yes	0.274	J	Yes	0.274	J	Yes	0.275	J	Yes	0.275	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	183	J	Yes	187	J	Yes	190	J	Yes	184		Yes	2.17	J	Yes	2.19	J	Yes	2.21	J	Yes	2.19	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	91.9	J	Yes	91.9	J	Yes	91.9	J	Yes	91.9		Yes	1.12	J	Yes	1.12	J	Yes	1.12	J	Yes	1.12	
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	133	J	Yes	133	J	Yes	133	J	Yes	133		Yes	1.52	J	Yes	1.52	J	Yes	1.52	J	Yes	1.52	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	212	J	Yes	212	J	Yes	212	J	Yes	212		Yes	6.35	J	Yes	6.35	J	Yes	6.35	J	Yes	6.35	
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	139	J	Yes	139	J	Yes	139	J	Yes	139		Yes	2.59	J	Yes	2.59	J	Yes	2.59	J	Yes	2.59	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	46.8	J	Yes	46.8	J	Yes	46.8	J	Yes	46.8		Yes	0.597	J	Yes	0.597	J	Yes	0.597	J	Yes	0.597	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	100	J	Yes	100	J	Yes	100	J	Yes	100		Yes	1.28	J	Yes	1.28	J	Yes	1.28	J	Yes	1.28	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	132	J	Yes	132	J	Yes	132	J	Yes	132		Yes	2.05	J	Yes	2.05	J	Yes	2.05	J	Yes	2.05	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	44.6	J	Yes	44.6	J	Yes	44.6	J	Yes	44.6		Yes	0.546	J	Yes	0.547	J	Yes	0.547	J	Yes	0.547	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	28.4	J	Yes	28.4	J	Yes	28.4	J	Yes	28.4		Yes	0.435	J	Yes	0.435	J	Yes	0.435	J	Yes	0.435	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	33.2	J	Yes	33.2	J	Yes	33.3	J	Yes	33.2		Yes	0.545	J	Yes	0.545	J	Yes	0.545	J	Yes	0.545	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	91.6	J	Yes	91.6	J	Yes	91.6	J	Yes	91.6		Yes	1.21	J	Yes	1.21	J	Yes	1.21	J	Yes	1.21	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	53.2	J	Yes	53.2	J	Yes	53.2	J	Yes	53.2		Yes	0.957	J	Yes	0.957	J	Yes	0.958	J	Yes	0.958	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	41.2	J	Yes	41.2	J	Yes	41.2	J	Yes	41.2		Yes	0.727	J	Yes	0.727	J	Yes	0.727	J	Yes	0.727	
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	97.9	J	Yes	97.9	J	Yes	97.9	J	Yes	97.9		Yes	1.4	J	Yes	1.4	J	Yes	1.4	J	Yes	1.4	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	129	J	Yes	129	J	Yes	129	J	Yes	129		Yes	2.49	J	Yes	2.49	J	Yes	2.49	J	Yes	2.49	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	78.1	J	Yes	78.1	J	Yes	78.1	J	Yes	78.1		Yes	0.835	J	Yes	0.835	J	Yes	0.835	J	Yes	0.835	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	107	J	Yes	110	J	Yes	112	J	Yes	108		Yes	1.7	J	Yes	1.71	J	Yes	1.73	J	Yes	1.71	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	87.2	J	Yes	87.2	J	Yes	87.3	J	Yes	87.2		Yes	0.687	J	Yes	0.688	J	Yes	0.688	J	Yes	0.688	
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	122	J	Yes	123	J	Yes	125	J	Yes	122		Yes	2.29	J	Yes	2.3	J	Yes	2.31	J	Yes	2.3	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	154	J	Yes	157	J	Yes	159	J	Yes	155		Yes	1.86	J	Yes	1.87	J	Yes	1.88	J	Yes	1.87	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	77.2	J	Yes	77.2	J	Yes	77.2	J	Yes	77.2		Yes	0.941	J	Yes	0.942	J	Yes	0.942	J	Yes	0.942	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	120	J	Yes	120	J	Yes	120	J	Yes	120		Yes	1.42	J	Yes	1.42	J	Yes	1.42	J	Yes	1.42	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	163	J	Yes	163	J	Yes	163	J	Yes	163		Yes	4.68	J	Yes	4.68	J	Yes	4.68	J	Yes	4.68	
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	107	J	Yes	107	J	Yes	107	J	Yes	107		Yes	1.98	J	Yes	1.98	J	Yes	1.98	J	Yes	1.98	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	72.7	J	Yes	72.7	J	Yes	72.7	J	Yes	72.7		Yes	2.03	J	Yes	2.03	J	Yes	2.03	J	Yes	2.03	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	78.4	J	Yes	78.4	J	Yes	78.5	J	Yes	78.4		Yes	4.39	J	Yes	4.4	J	Yes	4.4	J	Yes	4.4	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	72.5	J	Yes	72.5	J	Yes	72.5	J	Yes	72.5		Yes	3.77	J	Yes	3.77	J	Yes	3.78	J	Yes	3.78	
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	39.4	J	Yes	39.4	J	Yes	39.4	J	Yes	39.4		Yes	1.5	J	Yes	1.5	J	Yes	1.5	J	Yes	1.5	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	13	J	Yes	13	J	Yes	13	J	Yes	13		Yes	0.366	J	Yes	0.366	J	Yes	0.366	J	Yes	0.366	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	18.3	J	Yes	18.3	J	Yes	18.3	J	Yes	18.3		Yes	0.952	J	Yes	0.952	J	Yes	0.952	J	Yes	0.952	
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	20.1	J	Yes	20.1	J	Yes	20.1	J	Yes	20.1		Yes	1.03	J	Yes	1.03	J	Yes	1.03	J	Yes	1.03	

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	KM)	PCB TEQ-Mammal ng/kg		
					Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	Yes	10.1	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	Yes	9.03	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	Yes	9.93	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	Yes	12.5	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	Yes	13.2	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	Yes	6.12	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	Yes	8.13	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	Yes	12.4	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	Yes	12.5	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	Yes	7.85	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	Yes	12.1	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	Yes	8.65	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	Yes	14.4	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	Yes	19.2	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	Yes	10.5	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	Yes	7.57	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	Yes	12.2	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	Yes	8.9	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	Yes	13.7	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	Yes	11.2	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	Yes	5.81	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	Yes	13	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	Yes	1.73	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	Yes	0.8	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	Yes	5.46	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	Yes	11.7	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	Yes	11	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	Yes	8.85	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	Yes	12	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	Yes	15.5	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	Yes	11.8	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	Yes	6.7	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	Yes	9.96	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	Yes	10.8	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	Yes	13	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	Yes	9.48	J	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	Yes	4.03	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	Yes	1.43	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	Yes	0.748		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	Yes	0.581		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	Yes	1.26	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	Yes	0.386		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	Yes	0.152		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes	9.19	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	Yes	3.71	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes	5.83	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes	5.07	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes	8.21	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	Yes	3.8	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes	27	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes	14.2	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes	16.5	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	Yes	112	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes	35	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes	6.9	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes	16.1	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes	26.5	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes	7.06	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes	5.63	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes	6.62	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes	14.9	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes	12.3	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes	9.45	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes	16.8	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes	34.5	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	Yes	9.76	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes	20.6	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes	7.42	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes	31.1	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes	23.2	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes	12	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes	16	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes	81.1	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes	26.7	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes	25.7	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes	59.2	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	Yes	49.8	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes	20.4	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	Yes	4.83	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	Yes	12.9	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	Yes	13.2	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB TEQ-Mammal (ND=0.5DL)			PCB TEQ-Mammal (ND=DL)			PCB TEQ-Mammal (KM)			Monochlorobiphenyl			Dichlorobiphenyl			Trichlorobiphenyl			Tetrachlorobiphenyl			Pentachlorobiph	
					ng/kg			ng/kg			ng/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg	
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	10.3	J	Yes	10.4	J	Yes	10.2		Yes	0.00543		Yes	0.151	EMPC-J	Yes	13.5	J	Yes	209	J	Yes	339	EMPC-J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	9.15	J	Yes	9.27	J	Yes	9.08		Yes	0.00606	EMPC-J	Yes	0.235		Yes	11.5		Yes	147	J	Yes	291	EMPC-J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	10	J	Yes	10.2	J	Yes	9.97		Yes	0.00746	EMPC-J	Yes	0.194		Yes	16.2	J	Yes	196	J	Yes	304	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	12.7	J	Yes	12.8	J	Yes	12.5		Yes	0.00633	EMPC-J	Yes	0.171	EMPC-J	Yes	18.7	J	Yes	177	J	Yes	322	EMPC-J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	13.3	J	Yes	13.5	J	Yes	13.2		Yes	0.00915	EMPC-J	Yes	0.265		Yes	26.1	J	Yes	199	J	Yes	368	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	6.23	J	Yes	6.35	J	Yes	6.16		Yes	0.00599	EMPC-J	Yes	0.161	EMPC-J	Yes	6.27		Yes	78.6	J	Yes	161	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	8.22	J	Yes	8.31	J	Yes	8.16		Yes	0.0061		Yes	0.195		Yes	6.9		Yes	80.3	J	Yes	185	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	12.6	J	Yes	12.7	J	Yes	12.5		Yes	0.00449	EMPC-J	Yes	0.111	EMPC-J	Yes	5.51		Yes	111	J	Yes	267	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	12.7	J	Yes	12.8	J	Yes	12.6		Yes	0.00635	EMPC-J	Yes	0.171		Yes	14.6	J	Yes	133	J	Yes	305	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	7.91	J	Yes	7.97	J	Yes	7.88		Yes	0.006	EMPC-J	Yes	0.254	EMPC-J	Yes	41.1	J	Yes	122	J	Yes	120	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	12.1	J	Yes	12.2	J	Yes	12.1		Yes	0.00338	EMPC-J	Yes	0.11	J	Yes	3.95		Yes	98.3	J	Yes	230	EMPC-J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	8.78	J	Yes	8.91	J	Yes	8.68		Yes	0.00404	EMPC-J	Yes	0.196	EMPC-J	Yes	5.43	EMPC-J	Yes	107	J	Yes	242	EMPC-J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	14.5	J	Yes	14.6	J	Yes	14.4		Yes	0.00372	EMPC-J	Yes	0.247	J	Yes	13		Yes	189	J	Yes	374	EMPC-J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	19.4	J	Yes	19.7	J	Yes	19.3		Yes	0.00222	EMPC-J	Yes	0.197	J	Yes	10.8	EMPC-J	Yes	154	J	Yes	375	EMPC-J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	10.7	J	Yes	10.9	J	Yes	10.6		Yes	0.00733		Yes	0.269	EMPC-J	Yes	15.2	J	Yes	144	J	Yes	360	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	7.69	J	Yes	7.82	J	Yes	7.62		Yes	0.00363	EMPC-J	Yes	0.226	J	Yes	8.51		Yes	85.2	J	Yes	225	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	12.5	J	Yes	12.7	J	Yes	12.3		Yes	0.00822	EMPC-J	Yes	0.289	EMPC-J	Yes	6.08	EMPC-J	Yes	82.6	EMPC-J	Yes	245	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	9.05	J	Yes	9.21	J	Yes	8.94		Yes	0.0024	EMPC-J	Yes	0.118	J	Yes	2.96		Yes	103	EMPC-J	Yes	284	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	13.9	J	Yes	14.1	J	Yes	13.8		Yes	0.0042		Yes	0.198	EMPC-J	Yes	10.1		Yes	113	EMPC-J	Yes	361	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	11.3	J	Yes	11.4	J	Yes	11.2		Yes	0.00478	EMPC-J	Yes	0.334	EMPC-J	Yes	41.5	J	Yes	149	J	Yes	149	EMPC-J
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	5.92	J	Yes	6.03	J	Yes	5.86		Yes	0.00514		Yes	0.277		Yes	7.92		Yes	74.9	J	Yes	162	J
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	13.2	J	Yes	13.3	J	Yes	13.1		Yes	0.00865	EMPC-J	Yes	0.219	EMPC-J	Yes	14.3	J	Yes	161	J	Yes	377	EMPC-J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	2.92	J	Yes	4.11	J	Yes	3.24		Yes	0.00487	U	No	0.0458	J	Yes	1.34	EMPC-J	Yes	27.4	EMPC-J	Yes	105	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	1.05	J	Yes	1.31	J	Yes	0.867		Yes	0.00168	U	No	0.0246	U	No	0.229	EMPC-J	Yes	4.97	EMPC-J	Yes	33.9	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	5.55	J	Yes	5.64	J	Yes	5.49		Yes	0.00196	U	No	0.07		Yes	3.77		Yes	54	J	Yes	157	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	11.8	J	Yes	11.9	J	Yes	11.7		Yes	0.00462		Yes	0.141	EMPC-J	Yes	7.61		Yes	128	J	Yes	290	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	11.1	J	Yes	11.2	J	Yes	11.1		Yes	0.0045	EMPC-J	Yes	0.132	EMPC-J	Yes	9.15	J	Yes	159	J	Yes	289	EMPC-J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	8.97	J	Yes	9.1	J	Yes	8.89		Yes	0.00509	EMPC-J	Yes	0.216	EMPC-J	Yes	8.59	EMPC-J	Yes	128	J	Yes	267	EMPC-J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	12.1	J	Yes	12.3	J	Yes	12.1		Yes	0.00569	EMPC-J	Yes	0.219	J	Yes	14.7	J	Yes	193	J	Yes	337	EMPC-J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	15.7	J	Yes	15.9	J	Yes	15.5		Yes	0.00449	EMPC-J	Yes	0.183	EMPC-J	Yes	15.2	EMPC-J	Yes	167	J	Yes	346	EMPC-J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	12	J	Yes	12.2	J	Yes	11.9		Yes	0.00824	EMPC-J	Yes	0.267	EMPC-J	Yes	20.6	J	Yes	171	J	Yes	364	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	6.82	J	Yes	6.94	J	Yes	6.75		Yes	0.00504	EMPC-J	Yes	0.187	EMPC-J	Yes	7.17		Yes	81.2	J	Yes	187	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	10.1	J	Yes	10.3	J	Yes	10		Yes	0.00705	EMPC-J	Yes	0.237	EMPC-J	Yes	6.53	EMPC-J	Yes	81.3	EMPC-J	Yes	212	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	11	J	Yes	11.1	J	Yes	10.9		Yes	0.00353	EMPC-J	Yes	0.114	EMPC-J	Yes	4.34		Yes	107	EMPC-J	Yes	275	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	13.2	J	Yes	13.3	J	Yes	13.1		Yes	0.00546	EMPC-J	Yes	0.182	EMPC-J	Yes	12.7	J	Yes	125	EMPC-J	Yes	328	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	9.56	J	Yes	9.64	J	Yes	9.5		Yes	0.0054	EMPC-J	Yes	0.293	EMPC-J	Yes	41.3	J	Yes	135	J	Yes	134	EMPC-J
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	4.1	J	Yes	4.18	J	Yes	4.05		Yes	0.0176		Yes	0.948	EMPC-J	Yes	11.5		Yes	44.6	J	Yes	67.6	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	1.45	J	Yes	1.48	J	Yes	1.44		Yes	0.025		Yes	2.78	EMPC-J	Yes	21.3		Yes	37.8	J	Yes	25.6	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.76		Yes	0.773		Yes	0.753		Yes	0.00397	U	No	0.194	J	Yes	4.42		Yes	9.25		Yes	10.6	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.598		Yes	0.616		Yes	0.586		Yes	0.00431	U	No	0.228	J	Yes	2.98		Yes	6.9		Yes	8.74	EMPC-J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	1.28	J	Yes	1.3	J	Yes	1.26		Yes	0.0151		Yes	2.06	J	Yes	15		Yes	27.7		Yes	23.4	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.4		Yes	0.414		Yes	0.39		Yes	0.00233	U	No	0.0609	UJ	No	0.794		Yes	2.44		Yes	4.9	
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.159		Yes	0.167		Yes	0.154		Yes	0.00425	U	No	0.112	J	Yes	1.23		Yes	2.34	EMPC-J	Yes	2.41	EMPC-J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	9.38	J	Yes	9.58	J	Yes	9.27		Yes	0.00538	U	No	0.492	EMPC-J	Yes	11.7		Yes	99.8	EMPC-J	Yes	146	EMPC-J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	3.79	J	Yes	3.87	J	Yes	3.74		Yes	0.0141	EMPC-J	Yes	0.724	EMPC-J	Yes	9.62		Yes	37.6	J	Yes	49.9	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	5.97	J	Yes	6.1	J	Yes	5.89		Yes	0.0269	EMPC-J	Yes	3.93	EMPC-J	Yes	55.2	J	Yes	189	J	Yes	163	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	5.21	J	Yes	5.35	J	Yes	5.11		Yes	0.0463		Yes	2.31	J	Yes	13.1	EMPC-J	Yes	51.4	J	Yes	68.6	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	8.39	J	Yes	8.57	J	Yes	8.28		Yes	0.01	U	No	0.536	EMPC-J	Yes	7.18		Yes	61.3	J	Yes	129	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	3.88	J	Yes	3.97	J	Yes	3.83		Yes	0.0163		Yes	0.617	J	Yes	6.56		Yes	44.4	J	Yes	55.9	EMPC-J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	27.8	J	Yes	28.7	J	Yes	27.3		Yes	0.178		Yes	17.9	J	Yes	245	J	Yes	858	J	Yes	731	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	14.5	J	Yes	14.8	J	Yes	14.4		Yes	0.023	EMPC-J	Yes	4.87	EMPC-J	Yes	72.5	J	Yes	329	J	Yes	322	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	17.2	J	Yes	17.8	J	Yes	16.7		Yes	0.0469	EMPC-J	Yes	5.95	J	Yes	87	J	Yes	370	J	Yes	481	EMPC-J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	112	J	Yes	113	J	Yes	112		Yes	0.0624		Yes	5.12		Yes	61.3	J	Yes	355	J	Yes	557	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	35.7	J	Yes	36.5	J	Yes	35.3		Yes	0.052	EMPC-J	Yes	5.53	EMPC-J	Yes	75.1	J	Yes	453	J	Yes	621	EMPC-J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	6.95	J	Yes	7	J	Yes	6.93		Yes	0.0248		Yes	4.09	J	Yes	46.9	J	Yes	169	J	Yes	190	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	16.1	J	Yes	16.2	J	Yes	16.1		Yes	0.0761		Yes	9.95	J	Yes	104	J	Yes	360	J	Yes	342	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	26.6	J	Yes	26.7	J	Yes	26.6		Yes	0.128		Yes	15.6	J	Yes	131	J	Yes	484	J	Yes	562	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	7.11	J	Yes	7.16	J	Yes	7.1		Yes	0.0107		Yes	2.54	EMPC-J	Yes	36.7	J	Yes	138	J	Yes	143	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	5.68	J	Yes	5.73	J	Yes	5.66		Yes	0.0161		Yes	3	J	Yes	30.9	J	Yes	107	J	Yes	126	EMPC-J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	6.69	J	Yes	6.77	J	Yes	6.66		Yes	0.0116		Yes	1.71	J	Yes	20.8		Yes	104	J	Yes	160	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	15	J	Yes	15.1	J	Yes	15		Yes	0.0271		Yes	5.74	J	Yes	50.5	J	Yes	255	J	Yes	296	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	12.4	J	Yes	12.5	J	Yes	12.4		Yes	0.0209		Yes	2.92	J	Yes	25.5	EMPC-J	Yes	154	J	Yes	245	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	9.51	J	Yes	9.58	J	Yes	9.48		Yes	0.0196		Yes	2.58	J	Yes	21.5		Yes	123	J	Yes	192	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	16.9	J	Yes	17	J	Yes	16.8		Yes	0.0642		Yes	6.24	J	Yes	68	J	Yes	346	J	Yes	420	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	35.4	J	Yes	36.4	J	Yes	34.8		Yes	0.0725		Yes	8.92	EMPC-J	Yes	152	J	Yes	497	J	Yes	656	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	9.97	J	Yes	10.2	J	Yes	9.86		Yes	0.017	EMPC-J	Yes	6.12	EMPC-J	Yes	78.7	J	Yes	368	J	Yes	312	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	21.1	J	Yes	21.7	J	Yes	20.9		Yes	0.0544		Yes	9.39	EMPC-J	Yes	95.5	J	Yes	708	J	Yes	617	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	7.59	J	Yes	7.77	J	Yes	7.49		Yes	0.0553		Yes	11.4	J	Yes	99.8	J	Yes	219	J	Yes	199	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	31.7	J	Yes	32.3	J	Yes	31.4		Yes	0.101	EMPC-J	Yes	12.7	J	Yes	111	J	Yes	593	J	Yes	738	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	23.7	J	Yes	24.3	J	Yes	23.4		Yes	0.142		Yes	15.1	J	Yes	196	J	Yes	684	J	Yes	595	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	12.2	J	Yes	12.4	J	Yes	12.1		Yes	0.0192	EMPC-J	Yes	4.15	EMPC-J	Yes	61.4	J	Yes	270	J	Yes	266	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	16.5	J	Yes	17	J	Yes	16.2		Yes	0.0407	EMPC-J	Yes	5.88	J	Yes	75.5	J	Yes	334	J	Yes	423	EMPC-J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	81.1	J	Yes	81.8	J	Yes	81.1		Yes	0.0495		Yes	4.44	J	Yes	50.2	EMPC-J	Yes	293	J	Yes	460	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	27.2	J	Yes	27.8	J	Yes	26.9		Yes	0.0415	EMPC-J	Yes	4.57	EMPC-J	Yes	57.7	J	Yes	346	J	Yes	482	EMPC-J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	26.1	J	Yes	26.5	J	Yes	25.9		Yes	0.0147	EMPC-J	Yes	1.5	EMPC-J	Yes	30.8	J	Yes	305	J	Yes	516	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	59.9	J	Yes	60.6	J	Yes	59.4		Yes	0.0585		Yes	2.47	J	Yes	15.1		Yes	174	J	Yes	697	EMPC-J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	50.4	J	Yes	50.9	J	Yes	50.1		Yes	0.115		Yes	5.14	EMPC-J	Yes	25.3	J	Yes	194	J	Yes	729	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	20.7	J	Yes	21	J	Yes	20.5		Yes	0.145		Yes	5.71	EMPC-J	Yes	32.2	J	Yes	166	EMPC-J	Yes	320	EMPC-J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	4.88	J	Yes	4.94	J	Yes	4.85		Yes	0.00525	U	No	0.29	EMPC-J	Yes	6.96		Yes	56.1	J	Yes	85.9	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	13	J	Yes	13.1	J	Yes	12.9		Yes	0.018	EMPC-J	Yes	0.6	EMPC-J	Yes	4.93		Yes	43.8	EMPC-J	Yes	137	EMPC-J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	13.3	J	Yes	13.4	J	Yes	13.2		Yes	0.0323		Yes	1.55	J	Yes	8.5		Yes	76	J	Yes	202	J

BERA Tissue Chemistry Data from Above Dundee Dam

					enyl	Hexachlorobiphenyl			Heptachlorobiphenyl			Octachlorobiphenyl			Nonachlorobiphenyl		
						µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	Yes	356	J	Yes	174	J	Yes	57.2	J	Yes	11	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	Yes	328	J	Yes	166	J	Yes	50.9	J	Yes	12.3	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	Yes	336	J	Yes	185	J	Yes	58.1	J	Yes	13.4	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	Yes	580	J	Yes	462	J	Yes	139	J	Yes	25.4	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	Yes	408	J	Yes	220	J	Yes	80.8	J	Yes	22.3	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	Yes	187	J	Yes	93.9	J	Yes	20.2	J	Yes	3.39	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	Yes	225	J	Yes	121	J	Yes	34.1	J	Yes	5.8	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	Yes	332	J	Yes	197	J	Yes	48.4	J	Yes	7.94	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	Yes	371	J	Yes	223	J	Yes	57.2	J	Yes	9.88	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	Yes	96.4	J	Yes	42.9	J	Yes	9.24	EMPC-J	Yes	0.882	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	Yes	280	J	Yes	131	J	Yes	50.9	J	Yes	9.84	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	Yes	292	J	Yes	139	J	Yes	47.7	J	Yes	11	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	Yes	453	J	Yes	214	J	Yes	83.8	J	Yes	17.5	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	Yes	725	EMPC-J	Yes	554	J	Yes	200	J	Yes	32.7	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	Yes	393	EMPC-J	Yes	207	J	Yes	85.1	J	Yes	20.7	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	Yes	257	EMPC-J	Yes	126	J	Yes	31.2	J	Yes	4.82	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	Yes	330	J	Yes	179	J	Yes	51.2	J	Yes	8.56	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	Yes	390	J	Yes	205	J	Yes	66	J	Yes	9.61	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	Yes	441	J	Yes	239	J	Yes	69.9	J	Yes	10.6	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	Yes	140	J	Yes	58.8	J	Yes	15.4	EMPC-J	Yes	1.23	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	Yes	212	EMPC-J	Yes	106	J	Yes	30.4	J	Yes	5.56	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	Yes	397	J	Yes	159	J	Yes	42.5	J	Yes	6.61	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	Yes	174		Yes	83.1	EMPC-J	Yes	23		Yes	3.92	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	Yes	98.5	EMPC-J	Yes	51.8	EMPC-J	Yes	13.6		Yes	2.14	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	Yes	197	J	Yes	88.6	J	Yes	24.4	J	Yes	4.22	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	Yes	360	J	Yes	201	J	Yes	58.5	J	Yes	11.3	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	Yes	321	J	Yes	154	J	Yes	54.3	J	Yes	10.5	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	Yes	311	J	Yes	153	J	Yes	49.4	J	Yes	11.7	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	Yes	391	J	Yes	199	J	Yes	70.3	J	Yes	15.3	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	Yes	645	EMPC-J	Yes	503	J	Yes	166	J	Yes	28.7	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	Yes	400	EMPC-J	Yes	213	J	Yes	83	J	Yes	21.5	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	Yes	215	EMPC-J	Yes	107	J	Yes	24.6	J	Yes	3.96	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	Yes	272	J	Yes	147	J	Yes	41.8	J	Yes	7.04	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	Yes	359	J	Yes	201	J	Yes	56.5	J	Yes	8.71	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	Yes	400	J	Yes	230	J	Yes	62.4	J	Yes	10.2	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	Yes	118	J	Yes	50.7	J	Yes	12.2	EMPC-J	Yes	1.05	J	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	Yes	62.8	EMPC-J	Yes	25	J	Yes	5.51	J	Yes	0.787	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	Yes	20.2	EMPC-J	Yes	10.8	J	Yes	3.43	J	Yes	0.984	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	Yes	9.84	EMPC-J	Yes	5.36	EMPC-J	Yes	1.54	EMPC-J	Yes	0.411	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	Yes	8.89		Yes	5.7	EMPC-J	Yes	1.79	J	Yes	0.44	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	Yes	22	EMPC-J	Yes	11.9	J	Yes	3.21	EMPC-J	Yes	0.66	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	Yes	6.1	EMPC-J	Yes	4.11		Yes	1.09	J	Yes	0.196	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	Yes	1.8	EMPC-J	Yes	0.853		Yes	0.21	J	Yes	0.0385	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes	153	J	Yes	87.4	J	Yes	30.5	EMPC-J	Yes	8.84	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	Yes	44.1	J	Yes	26.5	J	Yes	9.19	EMPC-J	Yes	3.82	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes	122	J	Yes	58.7	J	Yes	16.1	J	Yes	3.8	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes	61.3	J	Yes	31.8	J	Yes	8.54	J	Yes	1.94	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes	131	J	Yes	67	J	Yes	19.5	J	Yes	3.13	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	Yes	53.4	EMPC-J	Yes	27.5	J	Yes	7.33	J	Yes	1.66	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes	475	J	Yes	251	J	Yes	107	J	Yes	23.9	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes	242	J	Yes	110	J	Yes	41.1	J	Yes	12.4	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes	395	J	Yes	224	J	Yes	89.7	J	Yes	18.3	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	Yes	547	J	Yes	316	J	Yes	167	J	Yes	20.6	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes	547	J	Yes	284	J	Yes	116	J	Yes	20.7	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes	178	J	Yes	92.9	J	Yes	38.4	J	Yes	9.88	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes	283	J	Yes	135	J	Yes	51.7	J	Yes	13.6	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes	480	J	Yes	225	J	Yes	98.3	J	Yes	19.6	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes	117	EMPC-J	Yes	51.1	J	Yes	18.1	EMPC-J	Yes	5.71	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes	123	J	Yes	62.8	J	Yes	24.6	J	Yes	6.89	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes	182	EMPC-J	Yes	108	J	Yes	51.5	J	Yes	13.6	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes	312	EMPC-J	Yes	178	J	Yes	69.2	J	Yes	15.6	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes	251	J	Yes	150	J	Yes	61.7	J	Yes	10.2	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes	199	J	Yes	101	J	Yes	36.6	J	Yes	7.15	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes	370	J	Yes	154	J	Yes	47.8	J	Yes	6.97	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes	563	J	Yes	279	J	Yes	129	J	Yes	27.3	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	Yes	194	J	Yes	83.9	J	Yes	29.7	EMPC-J	Yes	7.47	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes	502	J	Yes	279	J	Yes	146	J	Yes	36.2	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes	141	J	Yes	59.5	J	Yes	17.8		Yes	4.57	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes	566	J	Yes	345	J	Yes	150	J	Yes	31.2	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes	408	J	Yes	210	J	Yes	87.6	J	Yes	20.3	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes	203	EMPC-J	Yes	91.7	J	Yes	33.9	EMPC-J	Yes	10.3	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes	369	EMPC-J	Yes	210	J	Yes	83.3	J	Yes	17.5	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes	455	J	Yes	265	J	Yes	134	J	Yes	17.4	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes	434	J	Yes	225	J	Yes	90.2	J	Yes	16.3	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes	446	J	Yes	227	J	Yes	76.7	J	Yes	12.9	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes	960	J	Yes	641	J	Yes	227	J	Yes	38.2	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	Yes	867	J	Yes	522	J	Yes	164	J	Yes	24	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes	338	J	Yes	184	J	Yes	53.8	J	Yes	7.15	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	Yes	80.5	J	Yes	39.2	J	Yes	12.3	EMPC-J	Yes	2.5	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	Yes	245	J	Yes	140	J	Yes	44	J	Yes	7.62	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	Yes	299	J	Yes	148	J	Yes	46.1	J	Yes	7.55	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-1			PCB-2			PCB-3			PCB-4			PCB-5		
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.0606		Yes	0.00202		Yes	0.00465		Yes	1.13	J	Yes	0.0126	EMPC-J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	0.0055		Yes	0.00124	U	No	0.00233	U	No	0.353	J	Yes	0.0016	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	0.0412		Yes	0.00101	U	No	0.00157	U	No	1.01	J	Yes	0.011	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	0.0837		Yes	0.00142	U	No	0.00496		Yes	1.9	J	Yes	0.0339		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	0.111		Yes	0.00432		Yes	0.00857		Yes	2.02	J	Yes	0.0319	EMPC-J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	0.0726		Yes	0.0103		Yes	0.0126		Yes	2.44	J	Yes	0.0314		Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.0242		Yes	0.0133		Yes	0.0177		Yes	0.334		Yes	0.00665	J	Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	0.05		Yes	0.0117		Yes	0.015		Yes	1.46	J	Yes	0.0199	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.0113		Yes	0.00177		Yes	0.00354	U	No	0.262	J	Yes	0.00262		Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	0.0388		Yes	0.00886		Yes	0.00425	U	No	0.331	J	Yes	0.0082	EMPC-J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	0.0397		Yes	0.00437	EMPC-J	Yes	0.00753		Yes	1.71		Yes	0.0228		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	0.0266		Yes	0.00208	EMPC-J	Yes	0.00523		Yes	1.23		Yes	0.0196		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	0.0379		Yes	0.00277	EMPC-J	Yes	0.00548		Yes	1.48		Yes	0.0218		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.00525		Yes	0.000833	J	Yes	0.0012		Yes	0.177		Yes	0.00247	EMPC-J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.00432		Yes	0.000866	J	Yes	0.00139		Yes	0.137		Yes	0.00225		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.00429		Yes	0.000561	J	Yes	0.00116		Yes	0.139		Yes	0.0019		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	0.0264		Yes	0.003	EMPC-J	Yes	0.00509		Yes	1.12		Yes	0.015	EMPC-J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	0.0174		Yes	0.00158	EMPC-J	Yes	0.00365		Yes	0.781		Yes	0.0125		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	0.0237		Yes	0.00184	EMPC-J	Yes	0.00366		Yes	0.914		Yes	0.0134		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	0.033		Yes	0.0024		Yes	0.00483		Yes	1.09	J	Yes	0.0103		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	0.0479		Yes	0.00432		Yes	0.00768		Yes	1.55	J	Yes	0.0126		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	0.0371		Yes	0.00379		Yes	0.00837		Yes	1.05	J	Yes	0.0142		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	0.0255		Yes	0.0022		Yes	0.00428	U	No	0.862	J	Yes	0.00654		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	0.0525		Yes	0.00685		Yes	0.0116		Yes	1.54		Yes	0.0355		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	0.106		Yes	0.0166		Yes	0.0236		Yes	2.26		Yes	0.041		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	0.104		Yes	0.0189		Yes	0.0289		Yes	1.49		Yes	0.032		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	0.0303		Yes	0.00616		Yes	0.00924		Yes	0.852		Yes	0.0125	EMPC-J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.00965		Yes	0.00337		Yes	0.0052		Yes	0.201	J	Yes	0.00315	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.0126		Yes	0.00473	EMPC-J	Yes	0.00803		Yes	0.203	J	Yes	0.00316	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.00886		Yes	0.00321		Yes	0.00515		Yes	0.133	J	Yes	0.00189	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.00631		Yes	0.00192		Yes	0.00326	U	No	0.126	J	Yes	0.00123	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.0106		Yes	0.00307		Yes	0.00485		Yes	0.181	J	Yes	0.00268	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.0128		Yes	0.00249		Yes	0.00462		Yes	0.214	J	Yes	0.00207	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.0286		Yes	0.011		Yes	0.0169		Yes	0.249		Yes	0.00532	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.0088		Yes	0.00352		Yes	0.00538		Yes	0.175		Yes	0.00293	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	0.0242		Yes	0.00276		Yes	0.00497		Yes	0.757	J	Yes	0.00762	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	0.0341		Yes	0.00448	EMPC-J	Yes	0.00782		Yes	1.02	J	Yes	0.0089	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	0.0262		Yes	0.00357		Yes	0.00713		Yes	0.696	J	Yes	0.00945	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	0.0177		Yes	0.00209		Yes	0.00193	U	No	0.561	J	Yes	0.00437	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	0.0359		Yes	0.00535		Yes	0.00893		Yes	1	J	Yes	0.0225	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	0.0685		Yes	0.0109		Yes	0.016		Yes	1.44	J	Yes	0.0254	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	0.0723		Yes	0.0156		Yes	0.0239		Yes	0.969		Yes	0.0208	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	0.0213		Yes	0.00506		Yes	0.00763		Yes	0.57		Yes	0.00851	EMPC-J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	0.303		Yes	0.022		Yes	0.0469		Yes	2.78	J	Yes	0.0588		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	0.0851		Yes	0.00362		Yes	0.00568		Yes	2.18	J	Yes	0.00231	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	0.0556		Yes	0.00207	EMPC-J	Yes	0.0064		Yes	0.903	J	Yes	0.0223		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	0.173		Yes	0.00729		Yes	0.0114		Yes	3.63	J	Yes	0.0301		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	0.0631		Yes	0.00219		Yes	0.00379	U	No	1.69	J	Yes	0.0166		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.0885		Yes	0.0143		Yes	0.0264		Yes	0.636		Yes	0.0198	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.0321		Yes	0.00617		Yes	0.01		Yes	0.609	J	Yes	0.0123	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.0226		Yes	0.00539		Yes	0.00987		Yes	0.25	J	Yes	0.00637	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.042		Yes	0.00799		Yes	0.0119		Yes	0.715		Yes	0.00818	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.0172		Yes	0.00298		Yes	0.00494		Yes	0.38		Yes	0.00409	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	0.207		Yes	0.0186		Yes	0.0378		Yes	1.82	J	Yes	0.0414	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	0.0661		Yes	0.00454		Yes	0.00723		Yes	1.62	J	Yes	0.00516	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	0.0413		Yes	0.00351	EMPC-J	Yes	0.0079		Yes	0.62	J	Yes	0.0154	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	0.131		Yes	0.00752		Yes	0.0116		Yes	2.69	J	Yes	0.023	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.0441		Yes	0.00252		Yes	0.00316		Yes	1.15	J	Yes	0.0114	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	PCB-6 µg/kg			PCB-7 µg/kg			PCB-8 µg/kg			PCB-9 µg/kg			PCB-10 µg/kg			PCB-11 µg/kg			PCB-12 µg/kg			PCB-13 µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.502		Yes	0.0486		Yes	1.22		Yes	0.143		Yes	0.0819		Yes	0.0798		Yes	0.00692	J	Yes	C12	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	0.15		Yes	0.0017	EMPC-J	Yes	0.562	J	Yes	0.0224	EMPC-J	Yes	0.0087	J	Yes	0.0469		Yes	0.0106	EMPC-J	Yes	C12	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	0.224		Yes	0.0269	EMPC-J	Yes	0.403		Yes	0.0903		Yes	0.0954		Yes	0.00655	UJ	No	0.00648	J	Yes	C12	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	0.548		Yes	0.0589	EMPC-J	Yes	1.1		Yes	0.217		Yes	0.159		Yes	0.0164	UJ	No	0.00944	J	Yes	C12	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	0.711		Yes	0.0714		Yes	1.74	J	Yes	0.198		Yes	0.148		Yes	0.0336		Yes	0.00303	J	Yes	C12	
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	1.37		Yes	0.121		Yes	3.53		Yes	0.275		Yes	0.141		Yes	0.287		Yes	0.0418		Yes	C12	
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.186		Yes	0.0206	J	Yes	0.443		Yes	0.0411	J	Yes	0.0183	J	Yes	0.0377	J	Yes	0.0287	J	Yes	C12	
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	0.818		Yes	0.0742	J	Yes	2.09		Yes	0.166	J	Yes	0.0838	J	Yes	0.171	J	Yes	0.0357	J	Yes	C12	
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.0467		Yes	0.0115		Yes	0.208		Yes	0.0284		Yes	0.0269		Yes	0.0491		Yes	0.00674		Yes	C12	
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	0.314		Yes	0.0436		Yes	0.511		Yes	0.068		Yes	0.0551		Yes	0.0954		Yes	0.0131		Yes	C12	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	0.862		Yes	0.0911		Yes	2.45		Yes	0.201		Yes	0.116		Yes	0.0428		Yes	0.033		Yes	C12	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	0.608		Yes	0.0673		Yes	1.85		Yes	0.144		Yes	0.0961		Yes	0.0315		Yes	0.0233	EMPC-J	Yes	C12	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	0.711		Yes	0.0779		Yes	2.19		Yes	0.168		Yes	0.111		Yes	0.0389		Yes	0.0254		Yes	C12	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.0826		Yes	0.00887		Yes	0.227		Yes	0.0195		Yes	0.012		Yes	0.00703	U	No	0.0027	EMPC-J	Yes	C12	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.0645		Yes	0.00699		Yes	0.192		Yes	0.0152		Yes	0.00992		Yes	0.00712	U	No	0.00314		Yes	C12	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.0582		Yes	0.0059		Yes	0.17		Yes	0.0135		Yes	0.00982		Yes	0.0107	U	No	0.002		Yes	C12	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	0.561		Yes	0.0594		Yes	1.59		Yes	0.131		Yes	0.0759		Yes	0.0276		Yes	0.0213	EMPC-J	Yes	C12	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	0.385		Yes	0.0425		Yes	1.17		Yes	0.0911		Yes	0.0607		Yes	0.02		Yes	0.015	EMPC-J	Yes	C12	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	0.436		Yes	0.0475		Yes	1.34		Yes	0.103		Yes	0.0683		Yes	0.0247		Yes	0.0155		Yes	C12	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	0.592		Yes	0.0497		Yes	1.52		Yes	0.126		Yes	0.0881		Yes	0.157		Yes	0.0202		Yes	C12	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	0.82		Yes	0.0782		Yes	2.18		Yes	0.188		Yes	0.127		Yes	0.275		Yes	0.0263		Yes	C12	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	0.436		Yes	0.0457		Yes	1.24		Yes	0.106		Yes	0.0803		Yes	0.102		Yes	0.0351		Yes	C12	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	0.306		Yes	0.0386		Yes	0.897		Yes	0.0999		Yes	0.075		Yes	0.133		Yes	0.0147		Yes	C12	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	0.938		Yes	0.112		Yes	2.9		Yes	0.264		Yes	0.124		Yes	0.125		Yes	0.0376		Yes	C12	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	1.24		Yes	0.132		Yes	3.36		Yes	0.312		Yes	0.165		Yes	0.239		Yes	0.0514		Yes	C12	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	0.897		Yes	0.115		Yes	2.73		Yes	0.261		Yes	0.121		Yes	0.151		Yes	0.0699		Yes	C12	
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	0.364		Yes	0.0476		Yes	1.04		Yes	0.117		Yes	0.0784		Yes	0.113		Yes	0.0278		Yes	C12	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.0883		Yes	0.00863	J	Yes	0.228		Yes	0.0205	J	Yes	0.0153	J	Yes	0.0124	UJ	No	0.00798	J	Yes	C12	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.0792		Yes	0.00883	J	Yes	0.216		Yes	0.0191	J	Yes	0.016	J	Yes	0.0158	UJ	No	0.0106	J	Yes	C12	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.0425	J	Yes	0.00504	J	Yes	0.12		Yes	0.0118	J	Yes	0.00969	J	Yes	0.0135	UJ	No	0.00735	J	Yes	C12	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.0306	J	Yes	0.00398	J	Yes	0.0948		Yes	0.00979	J	Yes	0.0106	J	Yes	0.00929	UJ	No	0.00444	J	Yes	C12	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.064		Yes	0.00757	J	Yes	0.204		Yes	0.0164	J	Yes	0.0134	J	Yes	0.0131	UJ	No	0.00763	J	Yes	C12	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.0562		Yes	0.00498	J	Yes	0.149		Yes	0.0131	J	Yes	0.014	J	Yes	0.0119	UJ	No	0.00548	J	Yes	C12	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.111		Yes	0.0179	J	Yes	0.327		Yes	0.034	J	Yes	0.0199	J	Yes	0.0284	J	Yes	0.0251	J	Yes	C12	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.0557		Yes	0.00818	J	Yes	0.165		Yes	0.0184	J	Yes	0.0159	J	Yes	0.0202	J	Yes	0.0101	J	Yes	C12	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	0.403		Yes	0.0343	J	Yes	1.04		Yes	0.0864	J	Yes	0.0608	J	Yes	0.1		Yes	0.0156	J	Yes	C12	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	0.53		Yes	0.051	J	Yes	1.41		Yes	0.122	J	Yes	0.0835	J	Yes	0.17		Yes	0.0201	J	Yes	C12	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	0.284	J	Yes	0.03	J	Yes	0.808		Yes	0.0696	J	Yes	0.053	J	Yes	0.0652		Yes	0.0244	J	Yes	C12	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	0.193	J	Yes	0.0244	J	Yes	0.569		Yes	0.063	J	Yes	0.0487	J	Yes	0.0805		Yes	0.0105	J	Yes	C12	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	0.592		Yes	0.0706	J	Yes	1.83		Yes	0.166	J	Yes	0.0802	J	Yes	0.0781		Yes	0.0257	J	Yes	C12	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	0.764		Yes	0.0809	J	Yes	2.07		Yes	0.192	J	Yes	0.104	J	Yes	0.145		Yes	0.0329	J	Yes	C12	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	0.567		Yes	0.0742	J	Yes	1.72		Yes	0.166	J	Yes	0.0785	J	Yes	0.0995	J	Yes	0.0511	J	Yes	C12	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	0.235		Yes	0.0312	J	Yes	0.675		Yes	0.0759	J	Yes	0.0523	J	Yes	0.0743	J	Yes	0.0204	J	Yes	C12	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	2.46		Yes	0.182		Yes	6.6	J	Yes	0.431		Yes	0.166		Yes	0.105		Yes	0.0694		Yes	C12	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	1.27		Yes	0.107		Yes	3.73		Yes	0.277		Yes	0.165		Yes	0.0408	J	Yes	0.0143	J	Yes	C12	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	0.679		Yes	0.0431		Yes	1.87		Yes	0.121		Yes	0.0557		Yes	0.038		Yes	0.0177		Yes	C12	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	0.857		Yes	0.112		Yes	2.7		Yes	0.341		Yes	0.32		Yes	0.135		Yes	0.0278		Yes	C12	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	0.388		Yes	0.0464		Yes	1.27		Yes	0.167		Yes	0.16		Yes	0.0296		Yes	0.0137		Yes	C12	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.552		Yes	0.0487	J	Yes	1.46		Yes	0.106		Yes	0.0377	J	Yes	0.0298	J	Yes	0.0339	J	Yes	C12	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.351		Yes	0.0323		Yes	0.977		Yes	0.0832		Yes	0.0467		Yes	0.0162	UJ	No	0.0152	J	Yes	C12	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.166		Yes	0.0141	J	Yes	0.46		Yes	0.032	J	Yes	0.0155	J	Yes	0.0127	UJ	No	0.0116	J	Yes	C12	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.158		Yes	0.025	J	Yes	0.497		Yes	0.0667	J	Yes	0.0645		Yes	0.0282	J	Yes	0.0171	J	Yes	C12	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.081		Yes	0.0108	J	Yes	0.26		Yes	0.0348	J	Yes	0.0343	J	Yes	0.0105	UJ	No	0.00756	J	Yes	C12	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	1.61		Yes	0.123	J	Yes	4.31	J	Yes	0.286		Yes	0.109	J	Yes	0.0715	J	Yes	0.0536	J	Yes	C12	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	0.94		Yes	0.0802		Yes	2.74		Yes	0.207		Yes	0.123		Yes	0.0291	J	Yes	0.0146	J	Yes	C12	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	0.457		Yes	0.0305	J	Yes	1.26		Yes	0.0825	J	Yes	0.0383	J	Yes	0.0243		Yes	0.0151	J	Yes	C12	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	0.631		Yes	0.0839	J	Yes	1.99		Yes	0.252	J	Yes	0.237		Yes	0.101	J	Yes	0.0243	J	Yes	C12	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.261		Yes	0.0317	J	Yes	0.852		Yes	0.112	J	Yes	0.108	J	Yes	0.0195		Yes	0.0112	J	Yes	C12	

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	PCB-14			
						µg/kg		
					Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003		0.00252	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004		0.00119	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001		0.0011	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002		0.00164	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003		0.00129	U	No
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01		0.00118	U	No
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01		0.00145	U	No
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01		0.000653	U	No
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01		0.000188	U	No
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01		0.00164	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01		0.00382	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02		0.00228	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03		0.00269	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01		0.000394	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02		0.000264	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03		0.000196	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01		0.00125	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02		0.000726	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03		0.000819	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01		0.00176	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02		0.00179	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03		0.000883	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04		0.00181	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05		0.00324	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06		0.00505	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07		0.00331	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08		0.00232	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01		0.0013	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02		0.00119	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03		0.000933	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04		0.00125	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05		0.00154	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06		0.00149	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07		0.00116	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08		0.000969	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01		0.000794	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02		0.000777	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03		0.000451	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04		0.00079	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05		0.00128	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06		0.00181	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07		0.0012	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08		0.000878	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010		0.00188	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032		0.00194	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037		0.00069	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022		0.00238	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028		0.00203	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010		0.00132	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032		0.0015	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037		0.00105	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022		0.00142	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028		0.00172	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010		0.000815	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032		0.000891	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037		0.000423	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022		0.00103	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028		0.000951	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-15			PCB-16			PCB-17			PCB-18			PCB-19			PCB-20			PCB-21			PCB-22	
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg	
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.0263	EMPC-J	Yes	0.619		Yes	2.1		Yes	2.9		Yes	0.59		Yes	3.88		Yes	0.172		Yes	0.905	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	0.081		Yes	1.03		Yes	1.46		Yes	2.78		Yes	0.349		Yes	11.4	J	Yes	0.28		Yes	3.06	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	0.0316		Yes	0.611		Yes	1.94		Yes	2.93		Yes	0.522		Yes	3.27		Yes	0.0567		Yes	0.55	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	0.0756		Yes	1.51		Yes	3.47	J	Yes	4.64		Yes	1.08		Yes	5.14		Yes	0.141		Yes	1.1	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	0.0608	EMPC-J	Yes	1.1		Yes	3.37	J	Yes	4.79		Yes	1		Yes	9.15	J	Yes	0.393		Yes	1.97	
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	0.451		Yes	7.56	J	Yes	12.4	J	Yes	19.6	J	Yes	2.16		Yes	51.7	J	Yes	8.99	J	Yes	12.9	J
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.0709	J	Yes	0.64		Yes	1.09		Yes	1.67		Yes	0.249		Yes	6.2		Yes	1.1		Yes	1.27	
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	0.274	J	Yes	4.34	J	Yes	7.13	J	Yes	11.2	J	Yes	1.27		Yes	30.5	J	Yes	5.31	J	Yes	7.48	J
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.0768		Yes	0.151		Yes	0.67		Yes	0.951		Yes	0.121		Yes	1.9		Yes	0.216		Yes	0.67	
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	0.365		Yes	0.932		Yes	0.54		Yes	0.874		Yes	0.285		Yes	26.6	J	Yes	0.964		Yes	7.53	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	0.293		Yes	7.38	J	Yes	11.7	J	Yes	20.4	J	Yes	2.27		Yes	41.5	J	Yes	6.68		Yes	10.9	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	0.205		Yes	5.19	J	Yes	9.4	J	Yes	15	J	Yes	1.69		Yes	32.6	J	Yes	5.19		Yes	8.4	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	0.225		Yes	4.79	J	Yes	8.89	J	Yes	14.3	J	Yes	1.7		Yes	30	J	Yes	4.48		Yes	7.82	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.026		Yes	0.553		Yes	0.828		Yes	1.45		Yes	0.198		Yes	2.7		Yes	0.501		Yes	0.771	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.0221		Yes	0.506		Yes	0.78		Yes	1.27		Yes	0.162		Yes	2.85		Yes	0.516		Yes	0.774	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.016		Yes	0.345		Yes	0.572		Yes	0.928		Yes	0.131		Yes	1.68		Yes	0.299		Yes	0.507	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	0.19		Yes	4.74	J	Yes	7.5	J	Yes	13.1	J	Yes	1.47		Yes	26.5	J	Yes	4.29		Yes	6.99	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	0.13		Yes	3.26	J	Yes	5.86	J	Yes	9.36	J	Yes	1.06		Yes	20.4	J	Yes	3.27		Yes	5.27	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	0.137		Yes	2.91	J	Yes	5.38	J	Yes	8.66	J	Yes	1.04		Yes	18	J	Yes	2.72		Yes	4.73	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	0.161		Yes	2.48		Yes	5.6	J	Yes	9.1	J	Yes	1.15		Yes	11.4	J	Yes	2.65		Yes	3.71	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	0.29		Yes	2.8		Yes	8.86	J	Yes	13.5	J	Yes	1.6		Yes	15.6	J	Yes	3.33		Yes	5.44	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	0.295		Yes	2.7		Yes	4.52	J	Yes	7.35	J	Yes	1.02		Yes	14.2	J	Yes	3.67		Yes	4.54	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	0.15		Yes	1.37		Yes	3.94	J	Yes	6.31		Yes	0.823		Yes	9.79	J	Yes	2.63		Yes	3.46	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	0.346		Yes	3.96	J	Yes	7.25	J	Yes	11.8	J	Yes	1.31		Yes	19	J	Yes	4.24		Yes	5.75	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	0.474		Yes	4.56	J	Yes	8.41	J	Yes	14	J	Yes	1.6		Yes	12.9	J	Yes	3.29		Yes	4.69	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	0.455		Yes	8.1	J	Yes	20.5	J	Yes	29	J	Yes	1.49		Yes	62.6	J	Yes	25.5	J	Yes	20.9	J
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	0.25		Yes	2.11		Yes	3.71		Yes	5.87		Yes	0.716		Yes	10.4	J	Yes	2.28		Yes	3.26	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.0284	J	Yes	0.611		Yes	0.816		Yes	1.41		Yes	0.205		Yes	2.92		Yes	0.654		Yes	0.77	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.035	J	Yes	0.543		Yes	0.759		Yes	1.29		Yes	0.183		Yes	2.56		Yes	0.549		Yes	0.681	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.0294	J	Yes	0.276		Yes	0.378		Yes	0.637		Yes	0.105		Yes	1.49		Yes	0.378		Yes	0.386	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.0176	J	Yes	0.264		Yes	0.378		Yes	0.627		Yes	0.0925		Yes	1.61		Yes	0.394		Yes	0.414	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.028	J	Yes	0.43		Yes	0.538		Yes	0.934		Yes	0.144		Yes	1.81		Yes	0.466		Yes	0.486	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.028	J	Yes	0.302		Yes	0.385		Yes	0.673		Yes	0.112		Yes	1.2		Yes	0.326		Yes	0.357	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.0703		Yes	0.993		Yes	2.22		Yes	3.31		Yes	0.213		Yes	12.3	J	Yes	4.9		Yes	3.39	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.0417	J	Yes	0.421		Yes	0.706		Yes	1.14		Yes	0.153		Yes	2.84		Yes	0.631		Yes	0.758	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	0.111	J	Yes	1.78		Yes	3.81	J	Yes	6.22	J	Yes	0.796		Yes	8.22	J	Yes	1.9		Yes	2.61	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	0.19	J	Yes	1.92		Yes	5.68	J	Yes	8.71	J	Yes	1.04		Yes	10.5	J	Yes	2.24		Yes	3.57	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	0.192	J	Yes	1.76		Yes	2.92	J	Yes	4.76	J	Yes	0.667		Yes	9.29	J	Yes	2.4		Yes	2.94	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	0.0958	J	Yes	0.918		Yes	2.48	J	Yes	3.99		Yes	0.524		Yes	6.44	J	Yes	1.72		Yes	2.21	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	0.22	J	Yes	2.56	J	Yes	4.59	J	Yes	7.5	J	Yes	0.848		Yes	12.2	J	Yes	2.75		Yes	3.67	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	0.295	J	Yes	2.85	J	Yes	5.18	J	Yes	8.64	J	Yes	1		Yes	8.2	J	Yes	2.1		Yes	2.95	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	0.293		Yes	5.12	J	Yes	12.8	J	Yes	18.2	J	Yes	0.954		Yes	41.5	J	Yes	16.8	J	Yes	13.5	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	0.163	J	Yes	1.41		Yes	2.46		Yes	3.9		Yes	0.481		Yes	7.25	J	Yes	1.59		Yes	2.22	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	0.628		Yes	19.3	J	Yes	26.9	J	Yes	24.1	J	Yes	3.38		Yes	63.6	J	Yes	17.1	J	Yes	19.1	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	0.295		Yes	7.16	J	Yes	9.84	J	Yes	10.5	J	Yes	2.09		Yes	24.8	J	Yes	7.68	J	Yes	8.56	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	0.149		Yes	4.28	J	Yes	5.92	J	Yes	7.12		Yes	0.899		Yes	20.5	J	Yes	4.99		Yes	4.53	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	0.854		Yes	6.45	J	Yes	10.2	J	Yes	8.62	J	Yes	2.41		Yes	22.5	J	Yes	3.48		Yes	5.67	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	0.239		Yes	3.19		Yes	4.48	J	Yes	3.67		Yes	1.49		Yes	17.2	J	Yes	2.43		Yes	4.03	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.171		Yes	3.05		Yes	4.56	J	Yes	4.2		Yes	0.712		Yes	12.1	J	Yes	3.27		Yes	3.33	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.0909		Yes	1.59		Yes	2.35		Yes	2.51		Yes	0.58		Yes	6.67		Yes	1.68		Yes	1.76	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.0436	J	Yes	0.965		Yes	1.32		Yes	1.64		Yes	0.23		Yes	4.31		Yes	1.1		Yes	0.91	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.159		Yes	0.642		Yes	1.02		Yes	0.86		Yes	0.435		Yes	3.89		Yes	0.639		Yes	0.9	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.0469	J	Yes	0.509		Yes	0.746		Yes	0.637		Yes	0.318		Yes	2.64		Yes	0.381		Yes	0.587	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	0.424		Yes	12.1	J	Yes	16.9	J	Yes	15.2	J	Yes	2.19		Yes	40.6	J	Yes	10.9	J	Yes	12.1	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	0.222		Yes	5.16	J	Yes	7.15	J	Yes	7.63	J	Yes	1.55		Yes	18.3	J	Yes	5.53	J	Yes	6.12	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	0.103	J	Yes	2.84	J	Yes	3.93	J	Yes	4.75		Yes	0.609		Yes	13.5	J	Yes	3.31		Yes	2.96	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	0.63		Yes	4.57	J	Yes	7.23	J	Yes	6.11	J	Yes	1.77		Yes	16.5	J	Yes	2.56		Yes	4.13	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.159	J	Yes	2.08		Yes	2.93	J	Yes	2.41		Yes	1		Yes	11.2	J	Yes	1.58		Yes	2.6	J

BERA Tissue Chemistry Data from Above Dundee Dam

						PCB-23			PCB-24			PCB-25			PCB-26			PCB-27			PCB-28			PCB-29			
						µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	Yes	0.0116		Yes	0.000893	U	No	0.054		Yes	0.173		Yes	0.228		Yes	C20			C26			C18
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes	0.00427	U	No	0.0918		Yes	0.156		Yes	0.938		Yes	0.0866		Yes	C20			C26			C18
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes	0.00333		Yes	0.129		Yes	0.0302		Yes	0.084		Yes	0.329		Yes	C20			C26			C18
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	Yes	0.00551		Yes	0.126		Yes	0.0498		Yes	0.174		Yes	0.523		Yes	C20			C26			C18
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes	0.00991		Yes	0.088		Yes	0.14		Yes	0.423		Yes	0.574		Yes	C20			C26			C18
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes	0.0223		Yes	0.000758	U	No	3.57		Yes	6.83		Yes	2.21		Yes	C20			C26			C18
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	Yes	0.00461		Yes	0.0426		Yes	0.495		Yes	0.931		Yes	0.193		Yes	C20			C26			C18
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes	0.0141		Yes	0.0201		Yes	2.14		Yes	4.08		Yes	1.27		Yes	C20			C26			C18
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	Yes	0.000902	U	No	0.0409		Yes	0.152		Yes	0.241		Yes	0.0744		Yes	C20			C26			C18
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	Yes	0.0683		Yes	0.225		Yes	1.02		Yes	3.43		Yes	0.135		Yes	C20			C26			C18
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes	0.0202		Yes	0.378		Yes	3.39		Yes	6.67		Yes	1.68		Yes	C20			C26			C18
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes	0.0116	U	No	0.251		Yes	2.56		Yes	4.9		Yes	1.41		Yes	C20			C26			C18
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes	0.0128		Yes	0.25		Yes	2.37		Yes	4.37		Yes	1.26		Yes	C20			C26			C18
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	Yes	0.00112	U	No	0.0282		Yes	0.212		Yes	0.413		Yes	0.123		Yes	C20			C26			C18
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	Yes	0.00126	U	No	0.0239		Yes	0.219		Yes	0.44		Yes	0.128		Yes	C20			C26			C18
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	Yes	0.000821	U	No	0.018		Yes	0.135		Yes	0.25		Yes	0.088		Yes	C20			C26			C18
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes	0.0126		Yes	0.243		Yes	2.16		Yes	4.25		Yes	1.08		Yes	C20			C26			C18
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes	0.00368	U	No	0.158		Yes	1.6		Yes	3.07		Yes	0.883		Yes	C20			C26			C18
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes	0.00757		Yes	0.152		Yes	1.43		Yes	2.63		Yes	0.765		Yes	C20			C26			C18
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	Yes	0.04		Yes	0.78		Yes	0.783		Yes	1.54		Yes	0.965		Yes	C20			C26			C18
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes	0.0509		Yes	1.36		Yes	1.13		Yes	2.35		Yes	1.08		Yes	C20			C26			C18
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes	0.0107		Yes	0.17		Yes	1.28		Yes	2.29		Yes	0.924		Yes	C20			C26			C18
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	Yes	0.0316		Yes	0.613		Yes	0.731		Yes	1.39		Yes	0.879		Yes	C20			C26			C18
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	Yes	0.0133		Yes	0.197		Yes	1.31		Yes	2.36		Yes	1.15		Yes	C20			C26			C18
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes	0.0538		Yes	0.00164	U	No	1.11		Yes	1.9		Yes	1.39		Yes	C20			C26			C18
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	Yes	0.0557		Yes	0.0015	U	No	3.49		Yes	7.93	J	Yes	2.39		Yes	C20			C26			C18
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	Yes	0.00581		Yes	0.00148	U	No	0.757		Yes	1.32		Yes	0.666		Yes	C20			C26			C18
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	Yes	0.00218		Yes	0.0317		Yes	0.254		Yes	0.491		Yes	0.165		Yes	C20			C26			C18
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	Yes	0.00193		Yes	0.0314		Yes	0.244		Yes	0.462		Yes	0.152		Yes	C20			C26			C18
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	Yes	0.0011	U	No	0.018		Yes	0.142		Yes	0.269		Yes	0.0853		Yes	C20			C26			C18
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	Yes	0.00134	U	No	0.015		Yes	0.144		Yes	0.292		Yes	0.0837		Yes	C20			C26			C18
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	Yes	0.00138	EMPC-J	Yes	0.0214		Yes	0.165		Yes	0.328		Yes	0.111		Yes	C20			C26			C18
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	Yes	0.00123	U	No	0.0144		Yes	0.141		Yes	0.247		Yes	0.0834		Yes	C20			C26			C18
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	Yes	0.0153		Yes	0.0454		Yes	0.766		Yes	1.82		Yes	0.317		Yes	C20			C26			C18
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	Yes	0.00236		Yes	0.0307		Yes	0.24		Yes	0.473		Yes	0.151		Yes	C20			C26			C18
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	Yes	0.0258		Yes	0.499		Yes	0.585		Yes	1.15		Yes	0.665		Yes	C20			C26			C18
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes	0.0317		Yes	0.839		Yes	0.783		Yes	1.61		Yes	0.716		Yes	C20			C26			C18
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes	0.00678		Yes	0.111		Yes	0.841		Yes	1.51		Yes	0.6		Yes	C20			C26			C18
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	Yes	0.0189		Yes	0.368		Yes	0.491		Yes	0.941		Yes	0.554		Yes	C20			C26			C18
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	Yes	0.00858	EMPC-J	Yes	0.127		Yes	0.857		Yes	1.56		Yes	0.739		Yes	C20			C26			C18
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes	0.0324		Yes	0.00628		Yes	0.72		Yes	1.24		Yes	0.865		Yes	C20			C26			C18
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes	0.0387		Yes	0.0195		Yes	2.35		Yes	5.36	J	Yes	1.52		Yes	C20			C26			C18
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	Yes	0.00437		Yes	0.0132		Yes	0.541		Yes	0.967		Yes	0.451		Yes	C20			C26			C18
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	Yes	0.0303		Yes	0.0012	U	No	3.44		Yes	8.24	J	Yes	3.95	J	Yes	C20			C26			C18
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes	0.0144	EMPC-J	Yes	0.000827	U	No	1.56	J	Yes	3.55	J	Yes	1.74		Yes	C20			C26			C18
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes	0.0151		Yes	0.152		Yes	0.667		Yes	1.96		Yes	0.844		Yes	C20			C26			C18
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes	0.0118		Yes	0.00156	U	No	1.17		Yes	2.19		Yes	2.45		Yes	C20			C26			C18
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	Yes	0.00823		Yes	0.00105	U	No	0.76		Yes	1.78		Yes	1.14		Yes	C20			C26			C18
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	Yes	0.00851		Yes	0.108		Yes	0.727		Yes	1.68		Yes	0.653		Yes	C20			C26			C18
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	Yes	0.0051		Yes	0.0766		Yes	0.357		Yes	0.817		Yes	0.383		Yes	C20			C26			C18
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	Yes	0.0034		Yes	0.0371		Yes	0.138		Yes	0.396		Yes	0.202		Yes	C20			C26			C18
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	Yes	0.00291		Yes	0.0517		Yes	0.248		Yes	0.447		Yes	0.237		Yes	C20			C26			C18
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	Yes	0.00207		Yes	0.0507		Yes	0.14		Yes	0.318		Yes	0.181		Yes	C20			C26			C18
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	Yes	0.0206		Yes	0.0485		Yes	2.23		Yes	5.31	J	Yes	2.48	J	Yes	C20			C26			C18
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes	0.0111	EMPC-J	Yes	0.0278		Yes	1.13	J	Yes	2.57	J	Yes	1.25		Yes	C20			C26			C18
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes	0.01		Yes	0.102		Yes	0.438		Yes	1.28		Yes	0.566		Yes	C20			C26			C18
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes	0.00893		Yes	0.0172		Yes	0.872		Yes	1.63		Yes	1.74		Yes	C20			C26			C18
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes	0.00568		Yes	0.0213		Yes	0.503		Yes	1.17		Yes	0.743		Yes	C20			C26			C18

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-30		PCB-31			PCB-32			PCB-33			PCB-34			PCB-35			PCB-36			PCB-37		
					µg/kg		µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003			0.533		Yes	1.16		Yes	C21			0.00228	U	No	0.00241	U	No	0.00216	U	No	0.155		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004			2.59		Yes	0.913		Yes	C21			0.0392		Yes	0.00483	U	No	0.00407	U	No	0.335		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001			0.236		Yes	1.13		Yes	C21			0.00229	U	No	0.00243	U	No	0.0022	U	No	0.193		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002			0.531		Yes	1.75		Yes	C21			0.0111		Yes	0.00403	U	No	0.00365	U	No	0.234		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003			1.34		Yes	2.21		Yes	C21			0.0186		Yes	0.00786	U	No	0.00664	U	No	0.25		Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01			29.1	J	Yes	10.3	J	Yes	C21			0.212		Yes	0.00701	U	No	0.00651	U	No	1.81		Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01			3.56		Yes	0.943		Yes	C21			0.0282		Yes	0.013		Yes	0.00189	U	No	0.201		Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01			17.2	J	Yes	5.94	J	Yes	C21			0.126		Yes	0.00793		Yes	0.00218	U	No	1.06		Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01			1.18		Yes	0.572		Yes	C21			0.00155		Yes	0.00228		Yes	0.000858	U	No	0.28		Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01			12.6	J	Yes	1.09		Yes	C21			0.0336		Yes	0.00941		Yes	0.000643	U	No	2.63		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01			21.3	J	Yes	8.47	J	Yes	C21			0.175		Yes	0.0176	U	No	0.0157	U	No	1.42		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02			16	J	Yes	7.57	J	Yes	C21			0.151		Yes	0.0129	U	No	0.0116	U	No	1		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03			14.7	J	Yes	6.73	J	Yes	C21			0.114		Yes	0.0106	U	No	0.00949	U	No	1.1		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01			1.37		Yes	0.608		Yes	C21			0.01		Yes	0.00129	U	No	0.00113	U	No	0.085		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02			1.36		Yes	0.666		Yes	C21			0.012		Yes	0.0014	U	No	0.00126	U	No	0.0761		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03			0.843		Yes	0.443		Yes	C21			0.00597		Yes	0.000917	U	No	0.00082	U	No	0.0546		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01			13.6	J	Yes	5.44	J	Yes	C21			0.111		Yes	0.00565	U	No	0.00504	U	No	0.905		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02			9.98	J	Yes	4.73	J	Yes	C21			0.0939		Yes	0.00409	U	No	0.00368	U	No	0.62		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03			8.85	J	Yes	4.08	J	Yes	C21			0.0684		Yes	0.00326	U	No	0.00292	U	No	0.659		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01			5.57	J	Yes	3.99	J	Yes	C21			0.0144		Yes	0.00576		Yes	0.000873	U	No	0.618		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02			8.26	J	Yes	5.65	J	Yes	C21			0.0333		Yes	0.00777		Yes	0.000936	U	No	1.25		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03			9.57	J	Yes	3.74	J	Yes	C21			0.0568		Yes	0.00763		Yes	0.00247	U	No	1.47		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04			5.61	J	Yes	3.26		Yes	C21			0.0138		Yes	0.00478		Yes	0.000616	U	No	0.763		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05			9.59	J	Yes	4.56	J	Yes	C21			0.0734		Yes	0.0108		Yes	0.00402	U	No	1.47		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06			7.2	J	Yes	4.78	J	Yes	C21			0.0225		Yes	0.0114		Yes	0.0357		Yes	1.8		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07			33.4	J	Yes	12.1	J	Yes	C21			0.245		Yes	0.0128		Yes	0.00229	U	No	1.66		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08			4.95	J	Yes	2.53		Yes	C21			0.0416		Yes	0.00829		Yes	0.00155	U	No	0.995		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01			1.59		Yes	0.667		Yes	C21			0.0158		Yes	0.00378		Yes	0.00126	U	No	0.0804		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02			1.53		Yes	0.63		Yes	C21			0.0147		Yes	0.0043		Yes	0.00113	U	No	0.105		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03			0.963		Yes	0.345		Yes	C21			0.00694		Yes	0.00279		Yes	0.00108	U	No	0.117		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04			0.955		Yes	0.355		Yes	C21			0.0083		Yes	0.00143	U	No	0.00132	U	No	0.0607		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05			1.14		Yes	0.463		Yes	C21			0.00884		Yes	0.00253		Yes	0.00115	U	No	0.0913		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06			0.812		Yes	0.32		Yes	C21			0.00755		Yes	0.00131	U	No	0.00121	U	No	0.0786		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07			6.92	J	Yes	1.55		Yes	C21			0.0472		Yes	0.00599		Yes	0.00184	U	No	0.19		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08			1.49		Yes	0.574		Yes	C21			0.0138		Yes	0.00365		Yes	0.00214	U	No	0.154		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01			4.08	J	Yes	2.74	J	Yes	C21			0.0149		Yes	0.00502		Yes	0.000509	U	No	0.416		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02			5.62	J	Yes	3.68	J	Yes	C21			0.026		Yes	0.00641		Yes	0.000506	U	No	0.801		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03			6.25	J	Yes	2.43	J	Yes	C21			0.0376		Yes	0.00576		Yes	0.000967	U	No	0.948		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04			3.71	J	Yes	2.07		Yes	C21			0.0116		Yes	0.00312		Yes	0.000452	U	No	0.476		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05			6.24	J	Yes	2.94	J	Yes	C21			0.0478		Yes	0.00753		Yes	0.00144	U	No	0.924		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06			4.63	J	Yes	2.99	J	Yes	C21			0.0165		Yes	0.00708		Yes	0.0216		Yes	1.11		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07			22.3	J	Yes	7.67	J	Yes	C21			0.162		Yes	0.00994		Yes	0.00105	U	No	1.04		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08			3.51	J	Yes	1.71		Yes	C21			0.03		Yes	0.00636		Yes	0.000898	U	No	0.644		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010			38.4	J	Yes	20	J	Yes	C21			0.337		Yes	0.0134		Yes	0.00769	U	No	2.17		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032			15.5	J	Yes	7.72	J	Yes	C21			0.136		Yes	0.00817	U	No	0.00758	U	No	1.73		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037			6.81	J	Yes	4.28	J	Yes	C21			0.109		Yes	0.00585		Yes	0.00236	U	No	0.534		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022			9.92	J	Yes	8.47	J	Yes	C21			0.0779		Yes	0.00941	EMPC-J	Yes	0.00536	U	No	2.23		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028			8.01	J	Yes	4.27	J	Yes	C21			0.0461		Yes	0.00538	U	No	0.00499	U	No	1.27		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010			7.15	J	Yes	3.06		Yes	C21			0.07		Yes	0.00965		Yes	0.0015	U	No	0.403		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032			3.3		Yes	1.61		Yes	C21			0.0305		Yes	0.00584		Yes	0.00192	U	No	0.415		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037			1.35		Yes	0.939		Yes	C21			0.0231		Yes	0.00473		Yes	0.00119	U	No	0.103		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022			1.91		Yes	0.9		Yes	C21			0.0139		Yes	0.00697		Yes	0.00179	U	No	0.382		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028			1.29		Yes	0.69		Yes	C21			0.00758		Yes	0.00255		Yes	0.00149	U	No	0.198		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010			24.5	J	Yes	12.4	J	Yes	C21			0.218		Yes	0.0117		Yes	0.00246	U	No	1.38		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032			11.1	J	Yes	5.53	J	Yes	C21			0.0981		Yes	0.00472		Yes	0.00277	U	No	1.26		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037			4.45	J	Yes	2.83	J	Yes	C21			0.0718		Yes	0.00537		Yes	0.000927	U	No	0.347		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022			7.33	J	Yes	6.02	J	Yes	C21			0.0572		Yes	0.00862	EMPC-J	Yes	0.0021	U	No	1.63		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028			5.23	J	Yes	2.79	J	Yes	C21			0.0302		Yes	0.00263		Yes	0.00177	U	No	0.826		Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-38			PCB-39			PCB-40			PCB-41			PCB-42			PCB-43			PCB-44			PCB-45	
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg	
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.0194		Yes	0.00209	U	No	1.68		Yes	0.182		Yes	3.77		Yes	0.35		Yes	13.2	J	Yes	0.112	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	0.0471		Yes	0.0628		Yes	3.53		Yes	0.271		Yes	6.32	J	Yes	0.706		Yes	32.5	J	Yes	0.893	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	0.0288		Yes	0.0266		Yes	1.44		Yes	0.146		Yes	4.21	J	Yes	0.398		Yes	22.5	J	Yes	0.224	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	0.0426		Yes	0.0596		Yes	2.83		Yes	0.495		Yes	5.76	J	Yes	0.476		Yes	25.1	J	Yes	0.398	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	0.0344		Yes	0.0441		Yes	2.72		Yes	0.312		Yes	6.15	J	Yes	0.629		Yes	19.8	J	Yes	0.329	
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	0.0872		Yes	0.179		Yes	19.4	J	Yes	2.03		Yes	21.3	J	Yes	1.64		Yes	91.7	J	Yes	6.14	J
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.00313		Yes	0.0171		Yes	2.47		Yes	0.271		Yes	2.45		Yes	0.23		Yes	10.2		Yes	0.661	
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	0.048		Yes	0.104		Yes	11.5	J	Yes	1.21		Yes	12.5	J	Yes	0.983		Yes	53.7	J	Yes	3.59	J
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.00466		Yes	0.0106		Yes	0.772		Yes	0.133		Yes	0.911		Yes	0.066		Yes	3		Yes	0.261	
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	0.0592		Yes	0.0351		Yes	5.85		Yes	0.00059	U	No	13.3	J	Yes	0.204		Yes	52.2	J	Yes	0.237	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	0.121		Yes	0.23		Yes	19.2	J	Yes	2.66		Yes	18.3	J	Yes	1.7		Yes	70.6	J	Yes	6.06	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	0.101		Yes	0.184		Yes	17.8	J	Yes	1.86		Yes	15.3	J	Yes	1.5		Yes	68.5	J	Yes	3.62	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	0.0909		Yes	0.164		Yes	15.8	J	Yes	1.79		Yes	14.2	J	Yes	1.44		Yes	59.1	J	Yes	3.38	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.00585		Yes	0.0128		Yes	1.38		Yes	0.166		Yes	1.17		Yes	0.111		Yes	4.39		Yes	0.512	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.00709		Yes	0.0127		Yes	1.61		Yes	0.153		Yes	1.18		Yes	0.118		Yes	5.12		Yes	0.409	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.00402		Yes	0.00725		Yes	0.897		Yes	0.107		Yes	0.742		Yes	0.0707		Yes	2.93		Yes	0.239	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	0.0766		Yes	0.146		Yes	12.3	J	Yes	1.7		Yes	11.7	J	Yes	1.09		Yes	45	J	Yes	3.92	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	0.0624		Yes	0.114		Yes	11.1	J	Yes	1.16		Yes	9.5	J	Yes	0.932		Yes	42.5	J	Yes	2.3	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	0.0542		Yes	0.0979		Yes	9.51	J	Yes	1.08		Yes	8.52	J	Yes	0.862		Yes	35.4	J	Yes	2.05	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	0.0321		Yes	0.000847	U	No	10.2	J	Yes	1.37		Yes	7.04	J	Yes	0.918		Yes	28.1	J	Yes	0.000501	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	0.0471		Yes	0.000908	U	No	15.3	J	Yes	1.85		Yes	11.3	J	Yes	1.32		Yes	43.8	J	Yes	1.76	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	0.0392		Yes	0.00239	U	No	9.66	J	Yes	1.5		Yes	6.28	J	Yes	0.785		Yes	24.9	J	Yes	2.22	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	0.0309		Yes	0.000597	U	No	10.4	J	Yes	1.72		Yes	6.9	J	Yes	1.01		Yes	27	J	Yes	2.03	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	0.0267		Yes	0.00381	U	No	15.2	J	Yes	2.4		Yes	11.7	J	Yes	1.47		Yes	45.6	J	Yes	1.7	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	0.0238		Yes	0.00178	U	No	12.7	J	Yes	2.07		Yes	9.45	J	Yes	1.21		Yes	35.3	J	Yes	1.4	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	0.111		Yes	0.00217	U	No	59.8	J	Yes	20.7	J	Yes	46.7	J	Yes	7.96	J	Yes	141	J	Yes	6.04	J
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	0.0142		Yes	0.0776		Yes	7.79		Yes	1.59		Yes	5.91	J	Yes	0.755		Yes	22.7	J	Yes	0.836	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.00137	U	No	0.00121	U	No	1.6		Yes	0.25		Yes	1.04		Yes	0.136		Yes	4.2		Yes	0.427	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.00123	U	No	0.00108	U	No	1.33		Yes	0.153		Yes	0.869		Yes	0.103		Yes	3.49		Yes	0.407	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.00117	U	No	0.00103	U	No	0.814		Yes	0.147		Yes	0.513		Yes	0.0656		Yes	2.01		Yes	0.221	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.00143	U	No	0.00126	U	No	0.969		Yes	0.147		Yes	0.544		Yes	0.0795		Yes	2.23		Yes	0.243	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.00125	U	No	0.00111	U	No	0.821		Yes	0.11		Yes	0.508		Yes	0.0624		Yes	2.05		Yes	0.27	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.00131	U	No	0.00116	U	No	0.62		Yes	0.0953		Yes	0.373		Yes	0.0478		Yes	1.47		Yes	0.214	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.0116		Yes	0.00175	U	No	6.12		Yes	2.2		Yes	4.46	J	Yes	0.844		Yes	14.3	J	Yes	1.32	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.00233	U	No	0.00204	U	No	1.26		Yes	0.249		Yes	0.909		Yes	0.139		Yes	3.47		Yes	0.29	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	0.0203		Yes	0.000492	U	No	6.98	J	Yes	0.95		Yes	4.79	J	Yes	0.625		Yes	19.1	J	Yes	0.16	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	0.0289		Yes	0.000488	U	No	9.82	J	Yes	1.18		Yes	7.21	J	Yes	0.843		Yes	28	J	Yes	1.23	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	0.0243		Yes	0.000933	U	No	6.25	J	Yes	0.978		Yes	4.05	J	Yes	0.507		Yes	16.1	J	Yes	1.45	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	0.0186		Yes	0.000434	U	No	6.54	J	Yes	1.08		Yes	4.3	J	Yes	0.629		Yes	16.9	J	Yes	1.3	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	0.0164		Yes	0.00137	U	No	9.51	J	Yes	1.49		Yes	7.27	J	Yes	0.913		Yes	28.4	J	Yes	1.13	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	0.0145		Yes	0.000765	U	No	7.84	J	Yes	1.28		Yes	5.8	J	Yes	0.743		Yes	21.7	J	Yes	0.923	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	0.0693		Yes	0.000997	U	No	37.3	J	Yes	12.9	J	Yes	29	J	Yes	4.97	J	Yes	87.8	J	Yes	4.06	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	0.00876		Yes	0.0457		Yes	5.07		Yes	1.03		Yes	3.82	J	Yes	0.498		Yes	14.7	J	Yes	0.608	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	0.0676		Yes	0.176		Yes	23.8	J	Yes	4.03	J	Yes	19	J	Yes	1.47		Yes	69.4	J	Yes	8.53	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	0.0367		Yes	0.0836		Yes	12.2	J	Yes	1.49		Yes	9	J	Yes	0.788		Yes	34.7	J	Yes	3.27	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	0.0313		Yes	0.0698		Yes	9.29	J	Yes	1.28		Yes	7.46	J	Yes	0.744		Yes	27.4	J	Yes	2.33	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	0.0417		Yes	0.0619		Yes	13.1	J	Yes	1.84		Yes	10.6	J	Yes	0.69		Yes	40.2	J	Yes	2.85	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	0.023		Yes	0.0403		Yes	7.2		Yes	1.05		Yes	5.5	J	Yes	0.408		Yes	21.1	J	Yes	2.19	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.00745		Yes	0.00143	U	No	4.3		Yes	0.807		Yes	3.49		Yes	0.32		Yes	12.4	J	Yes	1.11	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.00383		Yes	0.00184	U	No	2.88		Yes	0.483		Yes	2.25		Yes	0.204		Yes	8.49		Yes	0.545	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.00219	EMPC-J	Yes	0.00115	U	No	1.96		Yes	0.301		Yes	1.5		Yes	0.155		Yes	5.5		Yes	0.482	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.00195	U	No	0.00762		Yes	2.17		Yes	0.397		Yes	1.74		Yes	0.135		Yes	6.61		Yes	0.384	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.00163	U	No	0.00144	U	No	1.11		Yes	0.198		Yes	0.832		Yes	0.0775		Yes	3.13		Yes	0.278	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	0.0408		Yes	0.0978		Yes	15.1	J	Yes	2.59	J	Yes	12.1	J	Yes	0.957		Yes	44	J	Yes	5.22	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	0.0249		Yes	0.0539		Yes	8.85	J	Yes	1.13		Yes	6.58	J	Yes	0.578		Yes	25.3	J	Yes	2.29	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	0.0187	EMPC-J	Yes	0.0398		Yes	6.12	J	Yes	0.856		Yes	4.88	J	Yes	0.489		Yes	17.9	J	Yes	1.53	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	0.0285		Yes	0.0444		Yes	9.57	J	Yes	1.37		Yes	7.74	J	Yes	0.511		Yes	29.4	J	Yes	2.05	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.0138		Yes	0.0239		Yes	4.68		Yes	0.697		Yes	3.57	J	Yes	0.271		Yes	13.7	J	Yes	1.4	

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	PCB-46			PCB-47			PCB-48			PCB-49			PCB-50			PCB-51			PCB-52			
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			
					Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	Yes	0.0479		Yes	C44			0.914		Yes	9.1	J	Yes	0.109		Yes	0.249		Yes	10.6	J	Yes	C50
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes	0.164		Yes	C44			2.52		Yes	22.1	J	Yes	0.298		Yes	0.154		Yes	35.2	J	Yes	C50
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes	0.0354		Yes	C44			0.877		Yes	10.1	J	Yes	0.0615		Yes	0.0964		Yes	6.73	J	Yes	C50
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	Yes	0.106		Yes	C44			1.81		Yes	11.5	J	Yes	0.207		Yes	0.251		Yes	13.7	J	Yes	C50
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes	0.0962		Yes	C44			1.55		Yes	14.7	J	Yes	0.227		Yes	0.424		Yes	17.8	J	Yes	C50
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes	1.29		Yes	C44			8.71	J	Yes	72.4	J	Yes	3.93		Yes	3.24		Yes	76.7	J	Yes	C50
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	Yes	0.195		Yes	C44			1.01		Yes	7.41		Yes	0.737		Yes	0.511		Yes	7.81	J	Yes	C50
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes	0.78		Yes	C44			5.12	J	Yes	42.1	J	Yes	2.44		Yes	1.97		Yes	44.6	J	Yes	C50
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	Yes	0.0174		Yes	C44			0.327		Yes	2.18		Yes	0.104		Yes	0.163		Yes	4.95	J	Yes	C50
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	Yes	0.0271		Yes	C44			1.07		Yes	32.5	J	Yes	0.176		Yes	1.8		Yes	55	J	Yes	C50
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes	1.7		Yes	C44			8.56	J	Yes	49.1	J	Yes	4.78		Yes	3.71		Yes	74.9	J	Yes	C50
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes	1.45		Yes	C44			6.48	J	Yes	41.9	J	Yes	4.04		Yes	5.41	J	Yes	61.8	J	Yes	C50
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes	1.14		Yes	C44			6.18	J	Yes	39.1	J	Yes	3.39		Yes	4.57	J	Yes	60.2	J	Yes	C50
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	Yes	0.131		Yes	C44			0.52		Yes	2.64		Yes	0.306		Yes	0.224		Yes	4.55	J	Yes	C50
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	Yes	0.151		Yes	C44			0.497		Yes	2.97		Yes	0.371		Yes	0.447		Yes	4.57	J	Yes	C50
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	Yes	0.0779		Yes	C44			0.306		Yes	1.66		Yes	0.196		Yes	0.246		Yes	2.95	J	Yes	C50
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes	1.09		Yes	C44			5.46	J	Yes	31.2	J	Yes	3.05		Yes	2.36		Yes	47.7	J	Yes	C50
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes	0.916		Yes	C44			4.02	J	Yes	25.9	J	Yes	2.53		Yes	3.37	J	Yes	38.3	J	Yes	C50
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes	0.692		Yes	C44			3.7	J	Yes	23.3	J	Yes	2.04		Yes	2.75	J	Yes	36	J	Yes	C50
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	No	0.695		Yes	C44			4.33	J	Yes	18	J	Yes	1.75		Yes	3.97	J	Yes	29.6	J	Yes	C50
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes	0.867		Yes	C44			5.98	J	Yes	27.9	J	Yes	2.29		Yes	3.75		Yes	45.8	J	Yes	C50
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes	0.783		Yes	C44			4.09	J	Yes	17.9	J	Yes	2.04		Yes	1.58		Yes	29.8	J	Yes	C50
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	Yes	0.637		Yes	C44			4.77	J	Yes	18.1	J	Yes	1.61		Yes	1.38		Yes	30.5	J	Yes	C50
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	Yes	0.771		Yes	C44			6.61	J	Yes	26.7	J	Yes	1.82		Yes	2.54		Yes	49.5	J	Yes	C50
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes	0.494		Yes	C44			5.51	J	Yes	20.2	J	Yes	1.31		Yes	1.2		Yes	40.1	J	Yes	C50
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	Yes	2.41		Yes	C44			44.7	J	Yes	84.7	J	Yes	5.96		Yes	5.17	J	Yes	138	J	Yes	C50
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	Yes	0.443		Yes	C44			3.67		Yes	13.2	J	Yes	1.12		Yes	1.32		Yes	23.4	J	Yes	C50
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	Yes	0.19		Yes	C44			0.622		Yes	2.53		Yes	0.539		Yes	0.431		Yes	4.51	J	Yes	C50
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	Yes	0.158		Yes	C44			0.442		Yes	2.12		Yes	0.432		Yes	0.357		Yes	3.69		Yes	C50
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	Yes	0.0813		Yes	C44			0.324		Yes	1.36		Yes	0.249		Yes	0.146		Yes	2.35		Yes	C50
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	Yes	0.097		Yes	C44			0.366		Yes	1.45		Yes	0.297		Yes	0.206		Yes	2.47		Yes	C50
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	Yes	0.0974		Yes	C44			0.279		Yes	1.34		Yes	0.261		Yes	0.168		Yes	2.32		Yes	C50
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	Yes	0.0781		Yes	C44			0.21		Yes	0.929		Yes	0.223		Yes	0.119		Yes	1.73		Yes	C50
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	Yes	0.479		Yes	C44			4.31	J	Yes	8.83	J	Yes	1.15		Yes	0.668		Yes	13.9	J	Yes	C50
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	Yes	0.13		Yes	C44			0.568		Yes	2		Yes	0.368		Yes	0.279		Yes	3.75	J	Yes	C50
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	Yes	0.506		Yes	C44			2.94	J	Yes	12.2	J	Yes	1.3		Yes	2.64	J	Yes	20.2	J	Yes	C50
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes	0.589		Yes	C44			3.81	J	Yes	17.8	J	Yes	1.56		Yes	2.42		Yes	29.3	J	Yes	C50
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes	0.512		Yes	C44			2.64	J	Yes	11.5	J	Yes	1.35		Yes	1.03		Yes	19.2	J	Yes	C50
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	Yes	0.416		Yes	C44			2.97	J	Yes	11.3	J	Yes	1.07		Yes	0.9		Yes	19	J	Yes	C50
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	Yes	0.504		Yes	C44			4.1	J	Yes	16.7	J	Yes	1.2		Yes	1.6		Yes	30.8	J	Yes	C50
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes	0.327		Yes	C44			3.38	J	Yes	12.5	J	Yes	0.873		Yes	0.765		Yes	24.7	J	Yes	C50
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes	1.6		Yes	C44			27.7	J	Yes	52.8	J	Yes	3.94		Yes	3.28	J	Yes	85.9	J	Yes	C50
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	Yes	0.312		Yes	C44			2.38		Yes	8.53	J	Yes	0.806		Yes	0.886		Yes	15.2	J	Yes	C50
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	Yes	3.21		Yes	C44			10.3	J	Yes	45.2	J	Yes	6.04		Yes	5.7	J	Yes	17.4	J	Yes	C50
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes	1.3		Yes	C44			4.54	J	Yes	23.6	J	Yes	2.91	J	Yes	3.24		Yes	12.7	J	Yes	C50
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes	1.24		Yes	C44			4.31	J	Yes	17.8	J	Yes	3.12		Yes	3.07		Yes	11.8	J	Yes	C50
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes	0.944		Yes	C44			3.49		Yes	30.5	J	Yes	2.26		Yes	1.9		Yes	9.58	J	Yes	C50
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	Yes	0.792		Yes	C44			2.15		Yes	14.4	J	Yes	1.58		Yes	1.21		Yes	5.93	J	Yes	C50
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	Yes	0.591		Yes	C44			1.93		Yes	7.14		Yes	1.26		Yes	1.13		Yes	3.03		Yes	C50
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	Yes	0.34		Yes	C44			1.16		Yes	4.86		Yes	0.742		Yes	0.756		Yes	3.05		Yes	C50
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	Yes	0.256		Yes	C44			0.908		Yes	3.31		Yes	0.599		Yes	0.541		Yes	2.39		Yes	C50
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	Yes	0.214		Yes	C44			0.586		Yes	4.46		Yes	0.538		Yes	0.413		Yes	1.5		Yes	C50
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	Yes	0.142		Yes	C44			0.318		Yes	1.93		Yes	0.344		Yes	0.214		Yes	0.83		Yes	C50
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	Yes	2.04		Yes	C44			6.57	J	Yes	28.2	J	Yes	3.91		Yes	3.66	J	Yes	11	J	Yes	C50
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes	0.955		Yes	C44			3.33	J	Yes	16.9	J	Yes	2.13	J	Yes	2.35		Yes	9.24	J	Yes	C50
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes	0.814		Yes	C44			2.84	J	Yes	11.5	J	Yes	2.03		Yes	1.97		Yes	7.73	J	Yes	C50
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes	0.708		Yes	C44			2.55		Yes	22.1	J	Yes	1.7		Yes	1.42		Yes	6.97	J	Yes	C50
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes	0.523		Yes	C44			1.39		Yes	9.24	J	Yes	1.07		Yes	0.798		Yes	3.82	J	Yes	C50

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-53		PCB-54			PCB-55			PCB-56			PCB-57			PCB-58			PCB-59			PCB-60		
					µg/kg		µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003			0.0203		Yes	0.0318		Yes	0.953		Yes	0.0185		Yes	0.0377		Yes	1.3		Yes	3.5		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004			0.0566		Yes	0.203		Yes	4.87	J	Yes	0.223		Yes	0.156		Yes	3.42		Yes	10.2	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001			0.0202	EMPC-J	Yes	0.152		Yes	1.08		Yes	0.00891		Yes	0.0606		Yes	1.91		Yes	6.28	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002			0.0477		Yes	0.132		Yes	1.78		Yes	0.0214		Yes	0.0374		Yes	2.48		Yes	7.52	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003			0.0357	EMPC-J	Yes	0.113		Yes	1.81		Yes	0.0316		Yes	0.0607		Yes	2.13		Yes	6.65	J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01			0.191		Yes	0.646		Yes	18.2	J	Yes	0.671		Yes	0.365		Yes	8.3		Yes	15.7	J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01			0.0212		Yes	0.0959		Yes	2.14		Yes	0.0727		Yes	0.0407		Yes	0.975		Yes	1.84		Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01			0.112		Yes	0.39		Yes	10.7	J	Yes	0.392		Yes	0.214		Yes	4.89		Yes	9.24	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01			0.0124		Yes	0.0323		Yes	0.929		Yes	0.0224		Yes	0.0014	U	No	0.314		Yes	0.661		Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01			0.0268		Yes	0.199		Yes	10.7	J	Yes	0.198		Yes	0.124		Yes	4.56		Yes	4.6	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01			0.374		Yes	0.367		Yes	14.2	J	Yes	0.365		Yes	0.257		Yes	6.66		Yes	8.02	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02			0.4		Yes	0.29		Yes	11.8	J	Yes	0.348		Yes	0.232		Yes	5.72		Yes	7.26	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03			0.381		Yes	0.261		Yes	11.3	J	Yes	0.307		Yes	0.216		Yes	5.33		Yes	7	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01			0.0247		Yes	0.0183		Yes	0.786		Yes	0.0189		Yes	0.00921		Yes	0.418		Yes	0.441		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02			0.034		Yes	0.0241		Yes	0.913		Yes	0.0247		Yes	0.00124	U	No	0.454		Yes	0.524		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03			0.0227		Yes	0.0135		Yes	0.574		Yes	0.0151		Yes	0.00922		Yes	0.282		Yes	0.332		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01			0.239		Yes	0.232		Yes	9.02	J	Yes	0.231		Yes	0.161		Yes	4.25		Yes	5.09	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02			0.25		Yes	0.181		Yes	7.33	J	Yes	0.215		Yes	0.137		Yes	3.56		Yes	4.49	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03			0.23		Yes	0.157		Yes	6.77	J	Yes	0.184		Yes	0.129		Yes	3.2		Yes	4.19	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01			0.169		Yes	0.178		Yes	6.41	J	Yes	0.171		Yes	0.0774		Yes	2.61		Yes	3.77		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02			0.257		Yes	0.31		Yes	10.8	J	Yes	0.226		Yes	0.126		Yes	4.21		Yes	5.52	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03			0.105		Yes	0.27		Yes	6.71	J	Yes	0.167		Yes	0.0823		Yes	2.45		Yes	4.38	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04			0.0969		Yes	0.24		Yes	6.8	J	Yes	0.181		Yes	0.0789		Yes	2.69		Yes	4.16	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05			0.194		Yes	0.458		Yes	12.5	J	Yes	0.323		Yes	0.189		Yes	4.42		Yes	7.6	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06			0.162		Yes	0.436		Yes	13.3	J	Yes	0.319		Yes	0.141		Yes	3.54		Yes	6.24	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07			0.241		Yes	0.603		Yes	12.1	J	Yes	1.13		Yes	0.295		Yes	15.6	J	Yes	7.73	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08			0.0996		Yes	0.234		Yes	6.55	J	Yes	0.182		Yes	0.0838		Yes	2.1		Yes	3.99	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01			0.0279		Yes	0.0345		Yes	0.981		Yes	0.0242		Yes	0.0137		Yes	0.398		Yes	0.567		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02			0.0242		Yes	0.0263		Yes	0.853		Yes	0.019		Yes	0.011		Yes	0.338		Yes	0.416		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03			0.00837		Yes	0.0253		Yes	0.552		Yes	0.0126		Yes	0.00698		Yes	0.2		Yes	0.343		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04			0.00971		Yes	0.0219		Yes	0.541		Yes	0.0138		Yes	0.00683		Yes	0.227		Yes	0.309		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05			0.0123		Yes	0.0209		Yes	0.486		Yes	0.0126		Yes	0.006		Yes	0.201		Yes	0.274		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06			0.00693		Yes	0.0151		Yes	0.377		Yes	0.00808		Yes	0.00505		Yes	0.148		Yes	0.155		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07			0.0282		Yes	0.0629		Yes	1.06		Yes	0.0984		Yes	0.0282		Yes	1.6		Yes	0.638		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08			0.0175		Yes	0.0404		Yes	1.01		Yes	0.0261		Yes	0.0123		Yes	0.349		Yes	0.594		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01			0.116		Yes	0.124		Yes	4.37	J	Yes	0.116		Yes	0.0535		Yes	1.78		Yes	2.57		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02			0.166		Yes	0.199		Yes	6.9	J	Yes	0.145		Yes	0.0809		Yes	2.69		Yes	3.52	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03			0.0677		Yes	0.176		Yes	4.33	J	Yes	0.107		Yes	0.0532		Yes	1.58		Yes	2.82	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04			0.0612		Yes	0.151		Yes	4.24	J	Yes	0.113		Yes	0.0494		Yes	1.68		Yes	2.58	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05			0.122		Yes	0.285		Yes	7.74	J	Yes	0.2		Yes	0.117		Yes	2.75		Yes	4.7	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06			0.0997		Yes	0.267		Yes	8.1	J	Yes	0.194		Yes	0.0863		Yes	2.18		Yes	3.79	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07			0.152		Yes	0.376		Yes	7.46	J	Yes	0.697		Yes	0.183		Yes	9.72	J	Yes	4.75	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08			0.0654		Yes	0.153		Yes	4.24	J	Yes	0.117		Yes	0.054		Yes	1.37		Yes	2.57	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010			0.391		Yes	0.356		Yes	19.3	J	Yes	0.312		Yes	0.23		Yes	6.32		Yes	5.95	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032			0.236		Yes	0.162		Yes	8.59	J	Yes	0.161		Yes	0.106		Yes	2.96		Yes	4.42	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037			0.103		Yes	0.0802		Yes	4.82	J	Yes	0.0729		Yes	0.05		Yes	2.33		Yes	3		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022			0.136		Yes	0.249		Yes	9.62	J	Yes	0.204		Yes	0.14		Yes	3.46		Yes	6.95	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028			0.0913		Yes	0.115		Yes	4.73	J	Yes	0.0963		Yes	0.067		Yes	1.88		Yes	3.59		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010			0.0774		Yes	0.0862		Yes	3.98	J	Yes	0.0596		Yes	0.0404		Yes	1.19		Yes	1.19		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032			0.0676		Yes	0.0499		Yes	2.19		Yes	0.0393		Yes	0.0241		Yes	0.758		Yes	1.12		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037			0.0258		Yes	0.0246		Yes	1.06		Yes	0.0174		Yes	0.0138		Yes	0.494		Yes	0.624		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022			0.0237		Yes	0.0486		Yes	1.6		Yes	0.0343		Yes	0.0203		Yes	0.595		Yes	1.14		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028			0.017		Yes	0.0221		Yes	0.693	J	Yes	0.0141		Yes	0.00943		Yes	0.288		Yes	0.502		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010			0.251		Yes	0.236		Yes	12.5	J	Yes	0.199		Yes	0.145		Yes	4.03		Yes	3.83	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032			0.176		Yes	0.122		Yes	6.29	J	Yes	0.117		Yes	0.0766		Yes	2.17		Yes	3.24	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037			0.0696		Yes	0.0561		Yes	3.19	J	Yes	0.0489		Yes	0.0343		Yes	1.54		Yes	1.97		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022			0.0997		Yes	0.184		Yes	7.03	J	Yes	0.149		Yes	0.101		Yes	2.53		Yes	5.07	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028			0.0605		Yes	0.0765		Yes	3.06	J	Yes	0.0623		Yes	0.0432		Yes	1.22		Yes	2.31		Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-61			PCB-62			PCB-63			PCB-64			PCB-65			PCB-66			PCB-67			PCB-68	
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg	
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	11.2		Yes	C59			0.812		Yes	7.74	J	Yes	C44			17.6	J	Yes	0.0799		Yes	0.156	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	41.7	J	Yes	C59			3.12		Yes	16.7	J	Yes	C44			63.5	J	Yes	0.227		Yes	0.526	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	24.9	J	Yes	C59			1.56		Yes	9.49	J	Yes	C44			42.3	J	Yes	0.0996		Yes	0.321	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	28.2	J	Yes	C59			1.71		Yes	10.8	J	Yes	C44			44.5	J	Yes	0.134		Yes	0.346	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	21.1	J	Yes	C59			1.46		Yes	11.5	J	Yes	C44			32.5	J	Yes	0.143		Yes	0.271	
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	134	J	Yes	C59			5.07	J	Yes	39.1	J	Yes	C44			99.7	J	Yes	2.64		Yes	1.26	
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	14.5		Yes	C59			0.527		Yes	4.62	J	Yes	C44			10.2	J	Yes	0.277		Yes	0.115	
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	78.3	J	Yes	C59			2.95	J	Yes	23	J	Yes	C44			58	J	Yes	1.54		Yes	0.726	
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	4.97		Yes	C59			0.172		Yes	1.64		Yes	C44			3.43		Yes	0.136		Yes	0.0432	
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	51.7	J	Yes	C59			1.79		Yes	20	J	Yes	C44			31.6	J	Yes	0.883		Yes	0.453	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	71.3	J	Yes	C59			3.17		Yes	26	J	Yes	C44			61.4	J	Yes	2.11		Yes	0.846	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	59.5	J	Yes	C59			2.91		Yes	22.2	J	Yes	C44			53.8	J	Yes	1.74		Yes	0.96	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	59.6	J	Yes	C59			2.78		Yes	20.7	J	Yes	C44			51.5	J	Yes	1.81		Yes	0.838	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	3.37		Yes	C59			0.144		Yes	1.67		Yes	C44			2.91		Yes	0.0966		Yes	0.0357	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	3.84		Yes	C59			0.184		Yes	1.72		Yes	C44			3.61		Yes	0.128		Yes	0.0555	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	2.55		Yes	C59			0.117		Yes	1.06		Yes	C44			2.22		Yes	0.0764		Yes	0.0327	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	45.1	J	Yes	C59			2		Yes	16.6	J	Yes	C44			38.8	J	Yes	1.33		Yes	0.533	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	36.6	J	Yes	C59			1.79		Yes	13.8	J	Yes	C44			33.2	J	Yes	1.08		Yes	0.588	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	35.5	J	Yes	C59			1.66		Yes	12.4	J	Yes	C44			30.7	J	Yes	1.08		Yes	0.498	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	33.3	J	Yes	C59			1.27		Yes	10.8	J	Yes	C44			23.1	J	Yes	0.943		Yes	0.308	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	54.5	J	Yes	C59			1.98		Yes	16.7	J	Yes	C44			36.5	J	Yes	1.53		Yes	0.546	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	33.5	J	Yes	C59			1.15		Yes	10.8	J	Yes	C44			22.4	J	Yes	0.924		Yes	0.24	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	33.8	J	Yes	C59			1.2		Yes	11.4	J	Yes	C44			22.1	J	Yes	1.02		Yes	0.256	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	67.9	J	Yes	C59			2.45		Yes	18.1	J	Yes	C44			43.7	J	Yes	1.76		Yes	0.57	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	62.8	J	Yes	C59			2.12		Yes	14.6	J	Yes	C44			41.1	J	Yes	1.74		Yes	0.477	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	118	J	Yes	C59			5.39	J	Yes	62	J	Yes	C44			60.6	J	Yes	5.42	J	Yes	0.804	
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	33.4	J	Yes	C59			1.24		Yes	8.85	J	Yes	C44			22.6	J	Yes	0.94		Yes	0.282	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	4.44		Yes	C59			0.165		Yes	1.58		Yes	C44			3.1		Yes	0.126		Yes	0.0354	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	3.64		Yes	C59			0.13		Yes	1.3		Yes	C44			2.48		Yes	0.101		Yes	0.0322	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	2.47		Yes	C59			0.0842		Yes	0.868		Yes	C44			1.6		Yes	0.0701		Yes	0.0161	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	2.34		Yes	C59			0.0823		Yes	0.917		Yes	C44			1.58		Yes	0.0697		Yes	0.0163	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	2.2		Yes	C59			0.0777		Yes	0.849		Yes	C44			1.42		Yes	0.0605		Yes	0.0166	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	1.42		Yes	C59			0.0477		Yes	0.603		Yes	C44			0.929		Yes	0.042		Yes	0.00986	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	9.34		Yes	C59			0.41		Yes	6.06	J	Yes	C44			4.9	J	Yes	0.421		Yes	0.0598	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	4.63		Yes	C59			0.164		Yes	1.33		Yes	C44			3.2		Yes	0.126		Yes	0.0357	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	22.5	J	Yes	C59			0.856		Yes	7.34	J	Yes	C44			15.6	J	Yes	0.637		Yes	0.206	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	34.6	J	Yes	C59			1.25		Yes	10.7	J	Yes	C44			23.2	J	Yes	0.97		Yes	0.345	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	21.5	J	Yes	C59			0.739		Yes	6.97	J	Yes	C44			14.4	J	Yes	0.594		Yes	0.154	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	20.9	J	Yes	C59			0.743		Yes	7.11	J	Yes	C44			13.7	J	Yes	0.631		Yes	0.158	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	41.9	J	Yes	C59			1.51		Yes	11.3	J	Yes	C44			27	J	Yes	1.09		Yes	0.351	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	38.1	J	Yes	C59			1.29		Yes	8.97	J	Yes	C44			25	J	Yes	1.06		Yes	0.289	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	72.4	J	Yes	C59			3.3	J	Yes	38.5	J	Yes	C44			37.2	J	Yes	3.32	J	Yes	0.491	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	21.4	J	Yes	C59			0.791		Yes	5.71	J	Yes	C44			14.5	J	Yes	0.601		Yes	0.179	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	79.6	J	Yes	C59			2.42		Yes	25.7	J	Yes	C44			51.5	J	Yes	1.52		Yes	0.552	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	40	J	Yes	C59			1.43		Yes	13.1	J	Yes	C44			28.1	J	Yes	0.587		Yes	0.358	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	24.1	J	Yes	C59			0.962		Yes	10.3	J	Yes	C44			19	J	Yes	0.195		Yes	0.225	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	50.1	J	Yes	C59			1.93		Yes	17.9	J	Yes	C44			36.3	J	Yes	0.663		Yes	0.438	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	25	J	Yes	C59			0.923		Yes	9.05	J	Yes	C44			17.6	J	Yes	0.371		Yes	0.201	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	15.5	J	Yes	C59			0.462		Yes	4.63	J	Yes	C44			9.8	J	Yes	0.281		Yes	0.099	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	9.83		Yes	C59			0.351		Yes	3.23		Yes	C44			6.64	J	Yes	0.144		Yes	0.0853	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	4.97		Yes	C59			0.205		Yes	2.05		Yes	C44			3.85		Yes	0.0454		Yes	0.0485	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	7.93		Yes	C59			0.298		Yes	2.95		Yes	C44			5.47	J	Yes	0.112		Yes	0.0652	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	3.26		Yes	C59			0.115		Yes	1.36		Yes	C44			2.2		Yes	0.0498		Yes	0.0239	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	51	J	Yes	C59			1.55		Yes	16.3	J	Yes	C44			32.9	J	Yes	0.967		Yes	0.35	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	29.2	J	Yes	C59			1.04		Yes	9.56	J	Yes	C44			20.4	J	Yes	0.428		Yes	0.26	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	15.8	J	Yes	C59			0.634		Yes	6.73	J	Yes	C44			12.4	J	Yes	0.13		Yes	0.149	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	36.5	J	Yes	C59			1.4		Yes	13.1	J	Yes	C44			26.3	J	Yes	0.485		Yes	0.318	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	16	J	Yes	C59			0.588		Yes	5.87	J	Yes	C44			11.2	J	Yes	0.238		Yes	0.128	

BERA Tissue Chemistry Data from Above Dundee Dam

						PCB-69			PCB-70			PCB-71			PCB-72			PCB-73			PCB-74			PCB-75			
						µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	Yes	C49			C61			C40			0.0408		Yes	0.0481		Yes	C61			C59			C61
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes	C49			C61			C40			0.311		Yes	0.111		Yes	C61			C59			C61
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes	C49			C61			C40			0.0384		Yes	0.062		Yes	C61			C59			C61
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	Yes	C49			C61			C40			0.0329		Yes	0.0864		Yes	C61			C59			C61
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes	C49			C61			C40			0.0618		Yes	0.0779		Yes	C61			C59			C61
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes	C49			C61			C40			1.7		Yes	0.289		Yes	C61			C59			C61
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	Yes	C49			C61			C40			0.149		Yes	0.0311		Yes	C61			C59			C61
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes	C49			C61			C40			0.977		Yes	0.169		Yes	C61			C59			C61
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	Yes	C49			C61			C40			0.00138	U	No	0.00698		Yes	C61			C59			C61
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	Yes	C49			C61			C40			0.462		Yes	0.0369		Yes	C61			C59			C61
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes	C49			C61			C40			0.838		Yes	0.282		Yes	C61			C59			C61
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes	C49			C61			C40			0.89		Yes	0.372		Yes	C61			C59			C61
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes	C49			C61			C40			0.759		Yes	0.279		Yes	C61			C59			C61
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	Yes	C49			C61			C40			0.0336		Yes	0.0133		Yes	C61			C59			C61
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	Yes	C49			C61			C40			0.0538		Yes	0.0276		Yes	C61			C59			C61
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	Yes	C49			C61			C40			0.0251		Yes	0.0117		Yes	C61			C59			C61
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes	C49			C61			C40			0.528		Yes	0.178		Yes	C61			C59			C61
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes	C49			C61			C40			0.546		Yes	0.23		Yes	C61			C59			C61
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes	C49			C61			C40			0.449		Yes	0.166		Yes	C61			C59			C61
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	Yes	C49			C61			C40			0.317		Yes	0.136		Yes	C61			C59			C61
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes	C49			C61			C40			0.471		Yes	0.223		Yes	C61			C59			C61
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes	C49			C61			C40			0.321		Yes	0.122		Yes	C61			C59			C61
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	Yes	C49			C61			C40			0.285		Yes	0.12		Yes	C61			C59			C61
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	Yes	C49			C61			C40			0.567		Yes	0.218		Yes	C61			C59			C61
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes	C49			C61			C40			0.467		Yes	0.13		Yes	C61			C59			C61
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	Yes	C49			C61			C40			0.98		Yes	0.384		Yes	C61			C59			C61
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	Yes	C49			C61			C40			0.291		Yes	0.108		Yes	C61			C59			C61
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	Yes	C49			C61			C40			0.0436		Yes	0.0189		Yes	C61			C59			C61
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	Yes	C49			C61			C40			0.0362		Yes	0.0159		Yes	C61			C59			C61
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	Yes	C49			C61			C40			0.0238		Yes	0.00781		Yes	C61			C59			C61
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	Yes	C49			C61			C40			0.0231		Yes	0.00714		Yes	C61			C59			C61
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	Yes	C49			C61			C40			0.0233		Yes	0.0105		Yes	C61			C59			C61
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	Yes	C49			C61			C40			0.0169		Yes	0.00592		Yes	C61			C59			C61
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	Yes	C49			C61			C40			0.0975		Yes	0.0344		Yes	C61			C59			C61
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	Yes	C49			C61			C40			0.0378		Yes	0.0139		Yes	C61			C59			C61
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	Yes	C49			C61			C40			0.214		Yes	0.0921		Yes	C61			C59			C61
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes	C49			C61			C40			0.301		Yes	0.142		Yes	C61			C59			C61
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes	C49			C61			C40			0.206		Yes	0.0779		Yes	C61			C59			C61
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	Yes	C49			C61			C40			0.178		Yes	0.0738		Yes	C61			C59			C61
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	Yes	C49			C61			C40			0.352		Yes	0.136		Yes	C61			C59			C61
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes	C49			C61			C40			0.286		Yes	0.0801		Yes	C61			C59			C61
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes	C49			C61			C40			0.609		Yes	0.237		Yes	C61			C59			C61
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	Yes	C49			C61			C40			0.185		Yes	0.0688		Yes	C61			C59			C61
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	Yes	C49			C61			C40			0.74		Yes	0.318		Yes	C61			C59			C61
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes	C49			C61			C40			0.418		Yes	0.168		Yes	C61			C59			C61
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes	C49			C61			C40			0.25		Yes	0.132		Yes	C61			C59			C61
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes	C49			C61			C40			0.507		Yes	0.147		Yes	C61			C59			C61
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	Yes	C49			C61			C40			0.273		Yes	0.0725		Yes	C61			C59			C61
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	Yes	C49			C61			C40			0.109		Yes	0.0565		Yes	C61			C59			C61
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	Yes	C49			C61			C40			0.0799		Yes	0.0501		Yes	C61			C59			C61
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	Yes	C49			C61			C40			0.049		Yes	0.0281		Yes	C61			C59			C61
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	Yes	C49			C61			C40			0.0664		Yes	0.0258		Yes	C61			C59			C61
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	Yes	C49			C61			C40			0.0292		Yes	0.0103		Yes	C61			C59			C61
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	Yes	C49			C61			C40			0.459		Yes	0.201		Yes	C61			C59			C61
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes	C49			C61			C40			0.297		Yes	0.126		Yes	C61			C59			C61
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes	C49			C61			C40			0.163		Yes	0.087		Yes	C61			C59			C61
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes	C49			C61			C40			0.365		Yes	0.108		Yes	C61			C59			C61
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes	C49			C61			C40			0.172		Yes	0.0467		Yes	C61			C59			C61

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-76		PCB-77			PCB-78			PCB-79			PCB-80			PCB-81			PCB-82		
					µg/kg		µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003			0.047		Yes	0.00397	U	No	0.173		Yes	0.00324	U	No	0.0598		Yes	0.592		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004			0.437		Yes	0.00863	U	No	0.322		Yes	0.00694	U	No	0.154		Yes	1.27		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001			0.0707		Yes	0.00873	U	No	0.215		Yes	0.00711	U	No	0.0844		Yes	1.54		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002			0.0912		Yes	0.0476		Yes	0.388		Yes	0.00525	U	No	0.109		Yes	3.03		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003			0.0909		Yes	0.0103	U	No	0.282		Yes	0.00827	U	No	0.105		Yes	1.16		Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01			2.8		Yes	0.0906		Yes	0.577		Yes	0.0127	U	No	0.318		Yes	11	J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01			0.348		Yes	0.00373	U	No	0.0744		Yes	0.00309	U	No	0.0347	J	Yes	1.06		Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01			1.66		Yes	0.0492		Yes	0.343		Yes	0.00411	U	No	0.186	J	Yes	6.37	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01			0.258		Yes	0.00155	U	No	0.0427		Yes	0.00127	U	No	0.00948		Yes	0.345		Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01			2.34		Yes	0.00737	U	No	0.282		Yes	0.00613	U	No	0.0799		Yes	3.94	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01			2.66		Yes	0.0156	U	No	0.813		Yes	0.0128	U	No	0.157		Yes	9.93	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02			2.18		Yes	0.0134	U	No	0.643		Yes	0.011	U	No	0.13		Yes	7.47	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03			2.45		Yes	0.0137	U	No	0.715		Yes	0.0112	U	No	0.105		Yes	7.37	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01			0.131		Yes	0.00167	U	No	0.0376		Yes	0.00138	U	No	0.00812		Yes	0.444		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02			0.137		Yes	0.00137	U	No	0.0416		Yes	0.00113	U	No	0.0107		Yes	0.511		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03			0.0951		Yes	0.000603	U	No	0.0243		Yes	0.000496	U	No	0.00424		Yes	0.297		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01			1.68		Yes	0.00511	U	No	0.514		Yes	0.0042	U	No	0.0995		Yes	6.27	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02			1.34		Yes	0.00423	U	No	0.396		Yes	0.00347	U	No	0.081		Yes	4.61	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03			1.46		Yes	0.00409	U	No	0.424		Yes	0.00334	U	No	0.0625		Yes	4.39	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01			1.36		Yes	0.00491	U	No	0.248		Yes	0.00408	U	No	0.0763		Yes	3.14		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02			2.15		Yes	0.00419	U	No	0.364		Yes	0.00349	U	No	0.1		Yes	5.05	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03			1.79		Yes	0.00873	U	No	0.302		Yes	0.00711	U	No	0.0956		Yes	3.23		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04			1.48		Yes	0.00548	U	No	0.168		Yes	0.00456	U	No	0.0828		Yes	2.42		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05			1.99	J	Yes	0.0241	U	No	0.453		Yes	0.0206	U	No	0.137		Yes	5.02	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06			2.6	J	Yes	0.00509	U	No	0.374		Yes	0.00433	U	No	0.115		Yes	4.67	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07			2.02	J	Yes	0.00909	U	No	0.281		Yes	0.00774	U	No	0.0956		Yes	4.16	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08			1.34	J	Yes	0.0122	U	No	0.193		Yes	0.0104	U	No	0.0602		Yes	2.54		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01			0.16	J	Yes	0.00133	U	No	0.0208		Yes	0.00113	U	No	0.00918		Yes	0.404		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02			0.161	J	Yes	0.00118	U	No	0.0181		Yes	0.000998	U	No	0.00789		Yes	0.327		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03			0.121	J	Yes	0.00135	U	No	0.0145		Yes	0.00114	U	No	0.00664		Yes	0.212		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04			0.101	J	Yes	0.000978	U	No	0.0118		Yes	0.000825	U	No	0.00531		Yes	0.16		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05			0.0995	J	Yes	0.00102	U	No	0.0134		Yes	0.000862	U	No	0.00578		Yes	0.193		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06			0.0608	J	Yes	0.000881	U	No	0.00812		Yes	0.000743	U	No	0.00345		Yes	0.113		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07			0.174		Yes	0.00169	U	No	0.0196		Yes	0.0014	U	No	0.00933		Yes	0.409		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08			0.197		Yes	0.00141	U	No	0.0197		Yes	0.00118	U	No	0.00897		Yes	0.459		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01			0.91	J	Yes	0.00178	U	No	0.163		Yes	0.00149	U	No	0.0511		Yes	2.11		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02			1.37	J	Yes	0.00151	U	No	0.228		Yes	0.00126	U	No	0.0639		Yes	3.2	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03			1.15	J	Yes	0.00294	U	No	0.191		Yes	0.0024	U	No	0.0613		Yes	2.07		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04			0.916	J	Yes	0.00182	U	No	0.104		Yes	0.00152	U	No	0.0511		Yes	1.5		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05			1.24	J	Yes	0.00748	U	No	0.279		Yes	0.00639	U	No	0.085		Yes	3.11	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06			1.58	J	Yes	0.0017	U	No	0.227		Yes	0.00144	U	No	0.0702		Yes	2.84	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08			0.863	J	Yes	0.00385	U	No	0.121		Yes	0.00328	U	No	0.0388		Yes	1.67		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010			2.83		Yes	0.0123	U	No	0.273		Yes	0.0106	U	No	0.114		Yes	5.96	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032			1.76		Yes	0.0145	U	No	0.259	J	Yes	0.0124	U	No	0.0665	J	Yes	3.85	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037			0.747		Yes	0.00923	U	No	0.146		Yes	0.00768	U	No	0.0457		Yes	2.64		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022			2.09		Yes	0.0375		Yes	0.352		Yes	0.0178	U	No	0.117		Yes	5.76	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028			1.3		Yes	0.0187	U	No	0.158		Yes	0.016	U	No	0.0739		Yes	2.82		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010			0.513		Yes	0.00261	U	No	0.0611		Yes	0.00217	U	No	0.0251		Yes	1.01		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032			0.448	J	Yes	0.0022	U	No	0.0429		Yes	0.00186	U	No	0.0183		Yes	0.896		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037			0.149	J	Yes	0.0016	U	No	0.0241		Yes	0.00135	U	No	0.00982		Yes	0.528		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022			0.364		Yes	0.0024	U	No	0.0522		Yes	0.00199	U	No	0.019	J	Yes	0.768		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028			0.185		Yes	0.00127	U	No	0.0164		Yes	0.00105	U	No	0.00917	J	Yes	0.364		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010			1.8		Yes	0.00399	U	No	0.178		Yes	0.00342	U	No	0.0744		Yes	3.75	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032			1.29	J	Yes	0.00504	U	No	0.181	J	Yes	0.00431	U	No	0.0492	J	Yes	2.79	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037			0.488	J	Yes	0.00296	U	No	0.0932		Yes	0.00247	U	No	0.0302		Yes	1.73		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022			1.53		Yes	0.0258		Yes	0.255		Yes	0.00635	U	No	0.0853	J	Yes	4.15	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028			0.838		Yes	0.00574	U	No	0.0994		Yes	0.00491	U	No	0.0471	J	Yes	1.8		Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	PCB-83 µg/kg			PCB-84 µg/kg			PCB-85 µg/kg			PCB-86 µg/kg			PCB-87 µg/kg			PCB-88 µg/kg			PCB-89 µg/kg			PCB-90 µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	1.02		Yes	0.738		Yes	5.13		Yes	12		Yes	C86			0.00179	U	No	0.0235		Yes	22.5	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	2.12		Yes	1.92		Yes	16	J	Yes	33.7	J	Yes	C86			0.0202	U	No	0.16		Yes	75.2	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	0.141		Yes	1.39		Yes	20.9	J	Yes	23.1	J	Yes	C86			0.007	U	No	0.0276		Yes	31.2	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	2.28		Yes	3.56	J	Yes	20.4	J	Yes	34.7	J	Yes	C86			0.00231	U	No	0.141		Yes	56.5	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	0.288		Yes	1.42		Yes	11.1	J	Yes	22.9	J	Yes	C86			0.00196	U	No	0.0505		Yes	41	J
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	6.53	J	Yes	17	J	Yes	30.9	J	Yes	81.2	J	Yes	C86			0.559		Yes	0.4		Yes	169	J
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.496		Yes	1.62		Yes	2.64		Yes	8.41		Yes	C86			0.00217	U	No	0.0479		Yes	14.1	J
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	3.72	J	Yes	9.83	J	Yes	17.7	J	Yes	47.3	J	Yes	C86			0.299		Yes	0.236		Yes	96.8	J
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.000252	U	No	0.33		Yes	1.06		Yes	2.78		Yes	C86			0.000232	U	No	0.0142		Yes	5.57	
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	2.17		Yes	6.79	J	Yes	5.03		Yes	22.6		Yes	C86			0.535		Yes	0.00715		Yes	41.5	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	3.75		Yes	15.7	J	Yes	18.3	J	Yes	64.7	J	Yes	C86			0.00883	U	No	0.519		Yes	117	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	3.81		Yes	11.5	J	Yes	13.6	J	Yes	46.6	J	Yes	C86			0.0234	U	No	0.449		Yes	84.8	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	3.31		Yes	11.7	J	Yes	13.7	J	Yes	47.2	J	Yes	C86			0.00572	U	No	0.44		Yes	86.5	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.169		Yes	0.783		Yes	0.698		Yes	2.51		Yes	C86			0.00384	U	No	0.0259		Yes	4.02	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.178		Yes	0.825		Yes	0.754		Yes	2.7		Yes	C86			0.0036	U	No	0.0323		Yes	4.33	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.0999		Yes	0.505		Yes	0.463		Yes	1.63		Yes	C86			0.0299		Yes	0.0193		Yes	2.73	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	2.37		Yes	9.94	J	Yes	11.5	J	Yes	40.7	J	Yes	C86			0.00345	U	No	0.329		Yes	73.4	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	2.32		Yes	7.11	J	Yes	8.32	J	Yes	28.6	J	Yes	C86			0.00763	U	No	0.278		Yes	51.7	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	1.96		Yes	6.98	J	Yes	8.11	J	Yes	28	J	Yes	C86			0.0143		Yes	0.262		Yes	51.1	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	2.75		Yes	6.2	J	Yes	5.35		Yes	20.4		Yes	C86			0.294		Yes	0.31		Yes	39.5	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	2.44		Yes	9.22	J	Yes	9.4	J	Yes	32.8	J	Yes	C86			0.218		Yes	0.43		Yes	61.2	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	1.51		Yes	5.96	J	Yes	6.52		Yes	22.2	J	Yes	C86			0.0098	U	No	0.26		Yes	44.3	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	1.33		Yes	5.18	J	Yes	4.45		Yes	16.9		Yes	C86			0.0893		Yes	0.269		Yes	30.7	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	2.72		Yes	9.08	J	Yes	12.2	J	Yes	36.6	J	Yes	C86			0.0775		Yes	0.432		Yes	70.5	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	2.71		Yes	9.42	J	Yes	9.98	J	Yes	0.00162	U	No	C86			0.151		Yes	0.465		Yes	62.6	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	2.12		Yes	10.4	J	Yes	7.39		Yes	26.8	J	Yes	C86			0.396		Yes	0.792		Yes	52.9	J
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	1.36		Yes	4.9	J	Yes	5.09		Yes	16.6		Yes	C86			0.0923		Yes	0.269		Yes	31.8	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.214		Yes	0.817		Yes	0.691		Yes	2.49		Yes	C86			0.00265	U	No	0.0416		Yes	4.09	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.15		Yes	0.62		Yes	0.503		Yes	1.97		Yes	C86			0.000997	U	No	0.0282		Yes	3.18	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.111		Yes	0.389		Yes	0.379		Yes	1.42		Yes	C86			0.00111	U	No	0.0179		Yes	2.55	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.069		Yes	0.344		Yes	0.272		Yes	1.03		Yes	C86			0.000935	U	No	0.0174		Yes	1.65	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.113		Yes	0.374		Yes	0.344		Yes	1.32		Yes	C86			0.00104	U	No	0.0152		Yes	2.13	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.0619		Yes	0.248		Yes	0.2		Yes	0.73		Yes	C86			0.000692	U	No	0.0106		Yes	1.15	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.217		Yes	1.02		Yes	0.747		Yes	2.55		Yes	C86			0.00221	U	No	0.0722		Yes	4.55	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.252		Yes	0.838		Yes	0.856		Yes	2.9		Yes	C86			0.00128	U	No	0.0458		Yes	4.89	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	1.8		Yes	4.18	J	Yes	3.6		Yes	13.7		Yes	C86			0.184		Yes	0.209		Yes	26.2	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	1.54		Yes	5.85	J	Yes	5.91	J	Yes	20.7	J	Yes	C86			0.133		Yes	0.272		Yes	38.5	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	0.97		Yes	3.81	J	Yes	4.15		Yes	14.2	J	Yes	C86			0.00322	U	No	0.167		Yes	28.2	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	0.814		Yes	3.2	J	Yes	2.74		Yes	10.4		Yes	C86			0.053		Yes	0.166		Yes	18.8	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	1.69		Yes	5.63	J	Yes	7.51	J	Yes	22.6	J	Yes	C86			0.047		Yes	0.267		Yes	43.4	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	1.65		Yes	5.73	J	Yes	6.05	J	Yes	0.294		Yes	C86			0.0904		Yes	0.282		Yes	37.9	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	1.32		Yes	6.46	J	Yes	4.6		Yes	16.6	J	Yes	C86			0.23		Yes	0.49		Yes	32.6	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	0.898		Yes	3.21	J	Yes	3.32		Yes	10.9		Yes	C86			0.0541		Yes	0.176		Yes	20.6	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	2.27		Yes	11.5	J	Yes	10.4	J	Yes	34.2	J	Yes	C86			0.968		Yes	0.642		Yes	48.9	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	1.51	J	Yes	6.79	J	Yes	7.11		Yes	24.8	J	Yes	C86			0.161	J	Yes	0.359		Yes	34	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	0.864		Yes	4.9	J	Yes	3.9		Yes	14.4		Yes	C86			0.0555		Yes	0.261		Yes	21.7	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	3.88		Yes	9.15	J	Yes	10.8	J	Yes	38.2	J	Yes	C86			0.127		Yes	0.407		Yes	47.6	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	1.26		Yes	4.82	J	Yes	5.27		Yes	17.2		Yes	C86			0.228		Yes	0.207		Yes	22.6	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.378		Yes	2.01		Yes	1.29		Yes	5.43		Yes	C86			0.00159	U	No	0.123		Yes	7.35	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.331		Yes	1.7		Yes	1.42		Yes	5.42		Yes	C86			0.00103	U	No	0.0953		Yes	7.63	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.205		Yes	0.9		Yes	0.742		Yes	2.93		Yes	C86			0.0043	U	No	0.0539		Yes	4.15	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.271		Yes	1.22		Yes	1.31		Yes	4.87		Yes	C86			0.00153	U	No	0.0596		Yes	5.85	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.133		Yes	0.618		Yes	0.557		Yes	2.03		Yes	C86			0.0013	U	No	0.0293		Yes	2.46	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	1.43		Yes	7.27	J	Yes	6.34	J	Yes	21.4	J	Yes	C86			0.537		Yes	0.411		Yes	30.4	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	1.09	J	Yes	4.96	J	Yes	5.07		Yes	17.8	J	Yes	C86			0.103	J	Yes	0.264		Yes	24.5	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	0.579		Yes	3.17	J	Yes	2.53		Yes	9.43		Yes	C86			0.0324		Yes	0.171		Yes	14.1	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	2.71		Yes	6.59	J	Yes	7.73	J	Yes	27.4	J	Yes	C86			0.0862		Yes	0.295		Yes	34.1	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.793		Yes	3.08	J	Yes	3.32		Yes	10.9		Yes	C86			0.134		Yes	0.133		Yes	14.3	J

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-91			PCB-92			PCB-93			PCB-94			PCB-95			PCB-96			PCB-97			
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	Yes	2.38		Yes	4.72	J	Yes	0.411		Yes	0.0824		Yes	3.79		Yes	0.0118		Yes	C86			0.0419
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes	6.03	J	Yes	11.5	J	Yes	1.05		Yes	0.147		Yes	21.3	J	Yes	0.122		Yes	C86			0.211
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes	4.83	J	Yes	13.6	J	Yes	1.49		Yes	0.112		Yes	5.19	J	Yes	0.0201		Yes	C86			0.0432
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	Yes	7.05	J	Yes	14.7	J	Yes	0.166		Yes	0.21		Yes	9.4	J	Yes	0.0677		Yes	C86			0.769
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes	4.74	J	Yes	9.39	J	Yes	0.117		Yes	0.157		Yes	6.22	J	Yes	0.0232		Yes	C86			0.221
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes	18.8	J	Yes	25.4	J	Yes	4.06		Yes	0.434		Yes	60.5	J	Yes	0.407		Yes	C86			0.248
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	Yes	1.92		Yes	2.11		Yes	0.277		Yes	0.0387		Yes	5.29	J	Yes	0.0435		Yes	C86			0.0205
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes	10.9	J	Yes	14.5	J	Yes	2.3		Yes	0.25		Yes	34.8	J	Yes	0.238		Yes	C86			0.142
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	Yes	0.533		Yes	0.997		Yes	0.128		Yes	0.00679		Yes	2.09		Yes	0.0128		Yes	C86			0.00401
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	Yes	6.03	J	Yes	7.42	J	Yes	1.25		Yes	0.0194		Yes	23.9	J	Yes	0.0301		Yes	C86			0.0912
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes	14.3	J	Yes	21	J	Yes	4.15		Yes	0.486		Yes	56.1	J	Yes	0.519		Yes	C86			0.00944
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes	11.1	J	Yes	15.7	J	Yes	4.52		Yes	0.473		Yes	40.1	J	Yes	0.492		Yes	C86			0.296
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes	11.3	J	Yes	16	J	Yes	4.28		Yes	0.463		Yes	41.6	J	Yes	0.455		Yes	C86			0.239
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	Yes	0.524		Yes	0.745		Yes	0.135		Yes	0.0204		Yes	2.47		Yes	0.0263		Yes	C86			0.00381
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	Yes	0.653		Yes	0.827		Yes	0.231		Yes	0.0297		Yes	2.54		Yes	0.032		Yes	C86			0.00385
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	Yes	0.39		Yes	0.518		Yes	0.137		Yes	0.0173		Yes	1.63		Yes	0.0206		Yes	C86			0.00444
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes	8.98	J	Yes	13.2	J	Yes	2.6		Yes	0.306		Yes	35.4	J	Yes	0.329		Yes	C86			0.00363
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes	6.81	J	Yes	9.59	J	Yes	2.76		Yes	0.291		Yes	24.7	J	Yes	0.303		Yes	C86			0.175
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes	6.7	J	Yes	9.47	J	Yes	2.53		Yes	0.275		Yes	24.7	J	Yes	0.272		Yes	C86			0.14
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	Yes	5.04	J	Yes	7.71	J	Yes	1.09		Yes	0.32		Yes	20.9	J	Yes	0.262		Yes	C86			0.0628
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes	8.18	J	Yes	11.8	J	Yes	2.26		Yes	0.431		Yes	30.5	J	Yes	0.386		Yes	C86			0.178
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes	4.66	J	Yes	7.73	J	Yes	0.82		Yes	0.229		Yes	23.9	J	Yes	0.206		Yes	C86			0.0714
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	Yes	4.34	J	Yes	6.06	J	Yes	0.828		Yes	0.248		Yes	17.8	J	Yes	0.234		Yes	C86			0.0852
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	Yes	8.22	J	Yes	12.8	J	Yes	1.74		Yes	0.388		Yes	31.2	J	Yes	0.332		Yes	C86			0.138
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes	7.75	J	Yes	13	J	Yes	1.02		Yes	0.365		Yes	29	J	Yes	0.309		Yes	C86			0.139
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	Yes	11.6	J	Yes	9.31	J	Yes	2.34		Yes	1.14		Yes	39.9	J	Yes	1.42		Yes	C86			0.288
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	Yes	3.87		Yes	5.48	J	Yes	0.755		Yes	0.241		Yes	15.6	J	Yes	0.192		Yes	C86			0.102
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	Yes	0.508		Yes	0.785		Yes	0.115		Yes	0.0377		Yes	2.68		Yes	0.036		Yes	C86			0.0136
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	Yes	0.399		Yes	0.597		Yes	0.115		Yes	0.0247		Yes	1.99		Yes	0.0275		Yes	C86			0.00836
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	Yes	0.261		Yes	0.429		Yes	0.0431		Yes	0.0134		Yes	1.53		Yes	0.0144		Yes	C86			0.00403
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	Yes	0.211		Yes	0.314		Yes	0.0484		Yes	0.0151		Yes	1.15		Yes	0.0153		Yes	C86			0.00319
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	Yes	0.249		Yes	0.396		Yes	0.0526		Yes	0.0126		Yes	1.33		Yes	0.0153		Yes	C86			0.00612
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	Yes	0.144		Yes	0.237		Yes	0.0213		Yes	0.00797		Yes	0.844		Yes	0.00942		Yes	C86			0.00232
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	Yes	1.08		Yes	0.921		Yes	0.197		Yes	0.0936		Yes	4.33	J	Yes	0.153		Yes	C86			0.0384
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	Yes	0.635		Yes	0.95		Yes	0.113		Yes	0.0378		Yes	2.64		Yes	0.0354		Yes	C86			0.0168
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	Yes	3.34	J	Yes	5.11	J	Yes	0.724		Yes	0.214		Yes	14.1	J	Yes	0.177		Yes	C86			0.0444
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes	5.13	J	Yes	7.41	J	Yes	1.42		Yes	0.272		Yes	19.3	J	Yes	0.245		Yes	C86			0.112
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes	2.96	J	Yes	4.91	J	Yes	0.52		Yes	0.146		Yes	15.3	J	Yes	0.132		Yes	C86			0.0454
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	Yes	2.65	J	Yes	3.71	J	Yes	0.509		Yes	0.153		Yes	11	J	Yes	0.145		Yes	C86			0.0517
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	Yes	5.06	J	Yes	7.89	J	Yes	1.07		Yes	0.239		Yes	19.4	J	Yes	0.207		Yes	C86			0.0858
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes	4.69	J	Yes	7.87	J	Yes	0.619		Yes	0.221		Yes	17.7	J	Yes	0.189		Yes	C86			0.0841
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes	7.18	J	Yes	5.79	J	Yes	1.44		Yes	0.701		Yes	25	J	Yes	0.888		Yes	C86			0.183
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	Yes	2.52		Yes	3.59	J	Yes	0.487		Yes	0.156		Yes	10.2	J	Yes	0.127		Yes	C86			0.0665
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	Yes	7.52	J	Yes	7.29	J	Yes	2.12		Yes	0.574		Yes	27.1	J	Yes	0.568		Yes	C86			0.0233
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes	5.42	J	Yes	5.07	J	Yes	1.4		Yes	0.355		Yes	17.7	J	Yes	0.307		Yes	C86			0.132
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes	3.82	J	Yes	3.55		Yes	0.838		Yes	0.245		Yes	12.2	J	Yes	0.193		Yes	C86			0.104
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes	7.99	J	Yes	5.99	J	Yes	1.11		Yes	0.314		Yes	23.8	J	Yes	0.304		Yes	C86			0.116
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	Yes	3.46		Yes	3.16		Yes	0.536		Yes	0.181		Yes	12.3	J	Yes	0.182		Yes	C86			0.0688
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	Yes	1.39		Yes	1.1		Yes	0.296		Yes	0.0938		Yes	4.32	J	Yes	0.104		Yes	C86			0.029
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	Yes	1.2		Yes	1.05		Yes	0.308		Yes	0.0863		Yes	4.09	J	Yes	0.0794		Yes	C86			0.0277
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	Yes	0.587		Yes	0.648		Yes	0.158		Yes	0.0483		Yes	2.26		Yes	0.0421		Yes	C86			0.0153
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	Yes	1.16		Yes	0.695		Yes	0.137		Yes	0.0411		Yes	2.93		Yes	0.0479		Yes	C86			0.0113
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	Yes	0.46		Yes	0.335		Yes	0.0543		Yes	0.0204		Yes	1.42		Yes	0.0266		Yes	C86			0.00487
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	Yes	4.79	J	Yes	4.53	J	Yes	1.31		Yes	0.36		Yes	16.9	J	Yes	0.361		Yes	C86			0.0194
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes	3.91	J	Yes	3.63	J	Yes	1.01		Yes	0.259		Yes	12.8	J	Yes	0.225		Yes	C86			0.0946
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes	2.42	J	Yes	2.29		Yes	0.544		Yes	0.16		Yes	7.9	J	Yes	0.128		Yes	C86			0.0656
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes	5.78	J	Yes	4.28	J	Yes	0.796		Yes	0.226		Yes	17.1	J	Yes	0.221		Yes	C86			0.0822
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes	2.22		Yes	1.99		Yes	0.337		Yes	0.115		Yes	7.8	J	Yes	0.118		Yes	C86			0.0423

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-98		PCB-99			PCB-100			PCB-101			PCB-102			PCB-103			PCB-104			PCB-105		
					µg/kg		µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003		Yes	16.9	J	Yes	C93			C90			0.0954		Yes	0.166		Yes	0.00483		Yes	12.1	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004		Yes	57	J	Yes	C93			C90			0.0242		Yes	0.534		Yes	0.0156		Yes	31.9	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001		Yes	103	J	Yes	C93			C90			0.29		Yes	0.242		Yes	0.0083	EMPC-J	Yes	60.4	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002		Yes	94	J	Yes	C93			C90			1.19		Yes	0.33		Yes	0.0229		Yes	59.8	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003		Yes	36.2	J	Yes	C93			C90			0.62		Yes	0.296		Yes	0.00862	EMPC-J	Yes	24.3	J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01		Yes	105	J	Yes	C93			C90			2.12		Yes	1.73		Yes	0.108		Yes	60.1	J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01		Yes	8.44	J	Yes	C93			C90			0.198		Yes	0.123		Yes	0.01		Yes	5.93	J	Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01		Yes	60	J	Yes	C93			C90			1.22		Yes	0.981		Yes	0.0623		Yes	34.9	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01		Yes	3.09		Yes	C93			C90			0.066		Yes	0.0609		Yes	0.005		Yes	2.1		Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01		Yes	21.3	J	Yes	C93			C90			0.123		Yes	0.607		Yes	0.0163		Yes	11	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	U	No	68.7	J	Yes	C93			C90			2.18		Yes	1.65		Yes	0.162		Yes	35	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02		Yes	50.7	J	Yes	C93			C90			1.46		Yes	1.53		Yes	0.21		Yes	27.4	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03		Yes	52.8	J	Yes	C93			C90			1.65		Yes	1.54		Yes	0.204		Yes	28	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	U	No	2.04		Yes	C93			C90			0.0908		Yes	0.0565		Yes	0.00616		Yes	1.44		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	U	No	2.54		Yes	C93			C90			0.108		Yes	0.0796		Yes	0.0124		Yes	1.52		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03		Yes	1.59		Yes	C93			C90			0.0693		Yes	0.0504		Yes	0.00754		Yes	0.965		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	U	No	43	J	Yes	C93			C90			1.37		Yes	1.03		Yes	0.102		Yes	22	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02		Yes	30.9	J	Yes	C93			C90			0.904		Yes	0.934		Yes	0.129		Yes	16.8	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03		Yes	31.2	J	Yes	C93			C90			0.983		Yes	0.911		Yes	0.121		Yes	16.6	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01		Yes	22.2	J	Yes	C93			C90			1.2		Yes	0.535		Yes	0.0758		Yes	12.1	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02		Yes	35.9	J	Yes	C93			C90			1.49		Yes	0.948		Yes	0.148		Yes	19.4	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03		Yes	21.4	J	Yes	C93			C90			0.95		Yes	0.446		Yes	0.043		Yes	14.4	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04		Yes	17.5	J	Yes	C93			C90			0.963		Yes	0.421		Yes	0.0564		Yes	10	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05		Yes	41.1	J	Yes	C93			C90			1.54		Yes	0.805		Yes	0.101		Yes	22.6	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06		Yes	37.6	J	Yes	C93			C90			1.52		Yes	0.645		Yes	0.0553		Yes	18	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07		Yes	31.2	J	Yes	C93			C90			4.52	J	Yes	1.18		Yes	0.0949		Yes	15.8	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08		Yes	18.8	J	Yes	C93			C90			0.887		Yes	0.377		Yes	0.0494		Yes	9.45	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01		Yes	2.25		Yes	C93			C90			0.12		Yes	0.0534		Yes	0.0104		Yes	1.43		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02		Yes	1.74		Yes	C93			C90			0.0786		Yes	0.0473		Yes	0.0096		Yes	1.13		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03		Yes	1.25		Yes	C93			C90			0.0585		Yes	0.0233		Yes	0.00301		Yes	0.864		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04		Yes	0.894		Yes	C93			C90			0.0524		Yes	0.0229		Yes	0.00405		Yes	0.587		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05		Yes	1.14		Yes	C93			C90			0.0466		Yes	0.0256		Yes	0.00381		Yes	0.81		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06		Yes	0.632		Yes	C93			C90			0.03		Yes	0.0129		Yes	0.00116	EMPC-J	Yes	0.382		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07		Yes	2.71		Yes	C93			C90			0.377		Yes	0.0975		Yes	0.0112		Yes	1.51		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08		Yes	2.94		Yes	C93			C90			0.131		Yes	0.0526		Yes	0.00855		Yes	1.76		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01		Yes	14.7	J	Yes	C93			C90			0.795		Yes	0.354		Yes	0.0513		Yes	8.1	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02		Yes	22.5	J	Yes	C93			C90			0.937		Yes	0.595		Yes	0.0937		Yes	12.2	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03		Yes	13.6	J	Yes	C93			C90			0.606		Yes	0.283		Yes	0.0276		Yes	9.18	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04		Yes	10.7	J	Yes	C93			C90			0.591		Yes	0.258		Yes	0.035		Yes	6.15	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05		Yes	25.3	J	Yes	C93			C90			0.949		Yes	0.496		Yes	0.0625		Yes	14	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06		Yes	22.7	J	Yes	C93			C90			0.921		Yes	0.391		Yes	0.0335	EMPC-J	Yes	10.9	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07		Yes	19.2	J	Yes	C93			C90			2.78	J	Yes	0.725		Yes	0.0597		Yes	9.8	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08		Yes	12.2	J	Yes	C93			C90			0.572		Yes	0.242		Yes	0.0324		Yes	6.24	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	U	No	32.3	J	Yes	C93			C90			1.91		Yes	0.875		Yes	0.137		Yes	12.8	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032		Yes	24.2	J	Yes	C93			C90			1.02		Yes	0.571		Yes	0.0753		Yes	12.7	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037		Yes	12.8	J	Yes	C93			C90			0.722		Yes	0.352		Yes	0.0389		Yes	6.53	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022		Yes	37.3	J	Yes	C93			C90			1.36		Yes	0.555		Yes	0.0345		Yes	21.8	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028		Yes	16.4	J	Yes	C93			C90			0.637		Yes	0.256		Yes	0.0247		Yes	10.7	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010		Yes	4.84	J	Yes	C93			C90			0.316		Yes	0.124		Yes	0.0256		Yes	2.21		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032		Yes	5.11	J	Yes	C93			C90			0.25		Yes	0.12		Yes	0.0193		Yes	2.92		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037		Yes	2.37		Yes	C93			C90			0.138		Yes	0.064		Yes	0.00954		Yes	1.45		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022		Yes	4.51	J	Yes	C93			C90			0.18		Yes	0.0645		Yes	0.0048	EMPC-J	Yes	3.04		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028		Yes	1.72		Yes	C93			C90			0.0775		Yes	0.0255		Yes	0.00378		Yes	1.36		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010		Yes	20.1	J	Yes	C93			C90			1.2		Yes	0.54		Yes	0.0873		Yes	8.08	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032		Yes	17.3	J	Yes	C93			C90			0.744		Yes	0.409		Yes	0.0552		Yes	9.19	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037		Yes	8.28	J	Yes	C93			C90			0.469		Yes	0.227		Yes	0.0262		Yes	4.33	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022		Yes	26.7	J	Yes	C93			C90			0.979		Yes	0.397		Yes	0.0249	EMPC-J	Yes	15.7	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028		Yes	10.3	J	Yes	C93			C90			0.405		Yes	0.161		Yes	0.016		Yes	6.83	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	PCB-106 µg/kg			PCB-107 µg/kg			PCB-108 µg/kg			PCB-109 µg/kg			PCB-110 µg/kg			PCB-111 µg/kg			PCB-112 µg/kg			PCB-113 µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.00118	U	No	1.97		Yes	0.172		Yes	C86			22.5	J	Yes	0.0232		Yes	0.0347		Yes	C90	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	0.0146	U	No	7.76	J	Yes	1.66		Yes	C86			54	J	Yes	0.104		Yes	0.186		Yes	C90	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	0.0053	U	No	8.31	J	Yes	0.239		Yes	C86			59.5	J	Yes	0.24		Yes	0.168		Yes	C90	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	0.00174	U	No	7.53	J	Yes	0.37		Yes	C86			84.5	J	Yes	0.2		Yes	0.161		Yes	C90	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	0.0014	U	No	4.19	J	Yes	0.347		Yes	C86			43.9	J	Yes	0.0527		Yes	0.0109		Yes	C90	
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	0.00461	U	No	13.1	J	Yes	6.38		Yes	C86			157	J	Yes	0.184		Yes	0.00435	U	No	C90	
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.00197	U	No	1.13		Yes	0.593		Yes	C86			16.8	J	Yes	0.0166		Yes	0.0236		Yes	C90	
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	0.00169	U	No	7.52	J	Yes	3.68		Yes	C86			91.7	J	Yes	0.106		Yes	0.0122		Yes	C90	
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.00017	U	No	0.41		Yes	0.178		Yes	C86			4.44	J	Yes	0.00512		Yes	0.000165	U	No	C90	
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	0.000591	U	No	2.62		Yes	1		Yes	C86			41.5	J	Yes	0.0387		Yes	0.0919		Yes	C90	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	0.00701	U	No	8.49	J	Yes	3.21		Yes	C86			112	J	Yes	0.129		Yes	0.223		Yes	C90	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	0.0186	U	No	6.5	J	Yes	2.26		Yes	C86			81	J	Yes	0.124		Yes	0.398		Yes	C90	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	0.00455	U	No	6.57	J	Yes	2.41		Yes	C86			80.3	J	Yes	0.00406	U	No	0.13		Yes	C90	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.00272	U	No	0.261		Yes	0.109		Yes	C86			4.49	J	Yes	0.00237	U	No	0.00253	U	No	C90	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.00286	U	No	0.308		Yes	0.113		Yes	C86			4.95	J	Yes	0.00255	U	No	0.00827		Yes	C90	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.000375	U	No	0.2		Yes	0.0745		Yes	C86			2.99		Yes	0.00295		Yes	0.00371		Yes	C90	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	0.00268	U	No	5.31	J	Yes	2.01		Yes	C86			70.5	J	Yes	0.0797		Yes	0.137		Yes	C90	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	0.00607	U	No	3.96	J	Yes	1.38		Yes	C86			49.7	J	Yes	0.0736		Yes	0.238		Yes	C90	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	0.00139	U	No	3.88	J	Yes	1.42		Yes	C86			47.7	J	Yes	0.00242		Yes	0.0767		Yes	C90	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	0.000714	U	No	2.96		Yes	1.38		Yes	C86			38	J	Yes	0.0418		Yes	0.0717		Yes	C90	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	0.000563	U	No	4.67	J	Yes	2.11		Yes	C86			58.3	J	Yes	0.0726		Yes	0.39		Yes	C90	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	0.00719	U	No	2.9		Yes	1.52		Yes	C86			38.7	J	Yes	0.0379		Yes	0.166		Yes	C90	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	0.000568	U	No	2.26		Yes	1.1		Yes	C86			30.5	J	Yes	0.0303		Yes	0.159		Yes	C90	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	0.00713	U	No	5.4	J	Yes	2.61		Yes	C86			67.8	J	Yes	0.0828		Yes	0.378		Yes	C90	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	0.00142	U	No	4.79	J	Yes	2.34		Yes	C86			60.4	J	Yes	0.0685		Yes	0.109		Yes	C90	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	0.0012	U	No	3.89	J	Yes	1.8		Yes	C86			46.9	J	Yes	0.0563		Yes	0.22		Yes	C90	
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	0.00428	U	No	2.38		Yes	1.16		Yes	C86			28.3	J	Yes	0.0341		Yes	0.0469		Yes	C90	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.00244		Yes	0.289		Yes	0.143		Yes	C86			4.44	J	Yes	0.00487		Yes	0.00833		Yes	C90	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.000663	U	No	0.211		Yes	0.103		Yes	C86			3.46		Yes	0.00382		Yes	0.00617		Yes	C90	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.000736	U	No	0.162		Yes	0.0848		Yes	C86			2.69		Yes	0.00233		Yes	0.00602		Yes	C90	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.000622	U	No	0.11		Yes	0.0548		Yes	C86			1.87		Yes	0.00166		Yes	0.00808		Yes	C90	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.000693	U	No	0.149		Yes	0.0741		Yes	C86			2.35		Yes	0.000649	U	No	0.00302		Yes	C90	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.000461	U	No	0.0804		Yes	0.0387		Yes	C86			1.38		Yes	0.000431	U	No	0.000438	U	No	C90	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.00182	U	No	0.344		Yes	0.163		Yes	C86			4.52	J	Yes	0.00566		Yes	0.00813		Yes	C90	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.00105	U	No	0.378		Yes	0.187		Yes	C86			4.94	J	Yes	0.00665		Yes	0.0122		Yes	C90	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	0.00114		Yes	1.96		Yes	0.916		Yes	C86			25.4	J	Yes	0.028		Yes	0.0479		Yes	C90	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	0.000301	U	No	2.92	J	Yes	1.32		Yes	C86			36.8	J	Yes	0.0456		Yes	0.24		Yes	C90	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	0.00235	U	No	1.84		Yes	0.966		Yes	C86			24.8	J	Yes	0.0242		Yes	0.104		Yes	C90	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	0.000295	U	No	1.38		Yes	0.673		Yes	C86			18.8	J	Yes	0.0186		Yes	0.0973		Yes	C90	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	0.00229	U	No	3.32	J	Yes	1.61		Yes	C86			41.9	J	Yes	0.0501		Yes	0.23		Yes	C90	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	0.000517	U	No	2.9	J	Yes	1.41		Yes	C86			36.7	J	Yes	0.041		Yes	0.0653		Yes	C90	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	0.00073	U	No	2.4	J	Yes	1.11		Yes	C86			29.1	J	Yes	0.035		Yes	0.131		Yes	C90	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	0.00147	U	No	1.55		Yes	0.754		Yes	C86			18.6	J	Yes	0.0227		Yes	0.0324		Yes	C90	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	0.0159	U	No	3.26		Yes	1.54		Yes	C86			49.9	J	Yes	0.0482		Yes	0.015	U	No	C90	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	0.0186	U	No	2.94		Yes	1.2		Yes	C86			37.2	J	Yes	0.0573		Yes	0.0175	U	No	C90	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	0.000851	U	No	1.5		Yes	0.526		Yes	C86			25.7	J	Yes	0.0267		Yes	0.000843	U	No	C90	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	0.00481	U	No	5.03	J	Yes	2.22		Yes	C86			61.2	J	Yes	0.0567		Yes	0.00454	U	No	C90	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	0.00567	U	No	2.02		Yes	0.902		Yes	C86			27.7	J	Yes	0.0223		Yes	0.00535	U	No	C90	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.00131	U	No	0.505		Yes	0.249		Yes	C86			9.33	J	Yes	0.00842		Yes	0.0171		Yes	C90	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.000684	U	No	0.643		Yes	0.268		Yes	C86			9.31	J	Yes	0.0121		Yes	0.0105		Yes	C90	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.00286	U	No	0.29		Yes	0.113		Yes	C86			5.14	J	Yes	0.00619		Yes	0.00879		Yes	C90	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.00139	U	No	0.603		Yes	0.277		Yes	C86			8.69	J	Yes	0.00747		Yes	0.00998		Yes	C90	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.00119	U	No	0.225		Yes	0.105		Yes	C86			3.8		Yes	0.003		Yes	0.00699		Yes	C90	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	0.0047	U	No	2.03		Yes	0.964		Yes	C86			31.8	J	Yes	0.0305		Yes	0.0118		Yes	C90	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	0.00608	U	No	2.12		Yes	0.865		Yes	C86			27.2	J	Yes	0.0411		Yes	0.00938		Yes	C90	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	0.00086	U	No	0.976		Yes	0.347		Yes	C86			16.8	J	Yes	0.0178		Yes	0.00405		Yes	C90	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	0.00185	U	No	3.6	J	Yes	1.59		Yes	C86			44.2	J	Yes	0.0408		Yes	0.00476		Yes	C90	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.00191	U	No	1.28		Yes	0.572		Yes	C86			17.8	J	Yes	0.0143		Yes	0.00446		Yes	C90	

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	PCB-114			PCB-115			PCB-116			PCB-117			PCB-118			PCB-119			PCB-120			
						µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			
					Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003		0.792		Yes	0.865		Yes	C85			1.15		Yes	33.1	J	Yes	C86			0.0994		Yes	0.0143
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004		2.45		Yes	2.55		Yes	C85			3.66	J	Yes	86	J	Yes	C86			0.476		Yes	0.0379
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001		4.77	J	Yes	3.89	J	Yes	C85			4.35	J	Yes	175	J	Yes	C86			0.476		Yes	0.0942
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002		4.14	J	Yes	0.27		Yes	C85			4.34	J	Yes	165	J	Yes	C86			0.0399		Yes	0.0843
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003		1.5		Yes	0.243		Yes	C85			0.323		Yes	57.9	J	Yes	C86			0.206		Yes	0.0312
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01		4.05	J	Yes	3.17		Yes	C85			7.01	J	Yes	166	J	Yes	C86			0.745		Yes	0.114
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01		0.374		Yes	0.305		Yes	C85			0.498		Yes	15.9	J	Yes	C86			0.0614		Yes	0.00891
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01		2.34	J	Yes	1.83		Yes	C85			3.98	J	Yes	96.1	J	Yes	C86			0.426		Yes	0.065
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01		0.134		Yes	0.11		Yes	C85			0.153		Yes	5.48	J	Yes	C86			0.0209		Yes	0.00321
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01		0.758		Yes	0.698		Yes	C85			1.67		Yes	30.2	J	Yes	C86			0.143		Yes	0.0361
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01		2.41		Yes	2.23		Yes	C85			3.76		Yes	105	J	Yes	C86			0.507		Yes	0.0978
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02		2.04		Yes	1.57		Yes	C85			2.91		Yes	84.9	J	Yes	C86			0.413		Yes	0.105
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03		1.99		Yes	2.14		Yes	C85			3.56		Yes	82.9	J	Yes	C86			0.406		Yes	0.0994
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01		0.0903		Yes	0.0618		Yes	C85			0.143		Yes	3.55		Yes	C86			0.0136		Yes	0.00238
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02		0.1		Yes	0.0744		Yes	C85			0.176		Yes	3.89		Yes	C86			0.0186		Yes	0.00502
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03		0.0622		Yes	0.0414		Yes	C85			0.108		Yes	2.41		Yes	C86			0.0109		Yes	0.00291
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01		1.51		Yes	1.39		Yes	C85			2.36		Yes	65.8	J	Yes	C86			0.317		Yes	0.0605
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02		1.24		Yes	0.955		Yes	C85			1.79		Yes	51.6	J	Yes	C86			0.251		Yes	0.0639
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03		1.18		Yes	1.25		Yes	C85			2.1		Yes	48.9	J	Yes	C86			0.239		Yes	0.0587
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01		0.838		Yes	0.956		Yes	C85			1.82		Yes	33.7	J	Yes	C86			0.168		Yes	0.029
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02		1.34		Yes	1.15		Yes	C85			2.39		Yes	52.8	J	Yes	C86			0.267		Yes	0.0585
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03		0.957		Yes	1.18		Yes	C85			1.39		Yes	36.5	J	Yes	C86			0.16		Yes	0.0201
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04		0.672		Yes	0.526		Yes	C85			1.27		Yes	26.4	J	Yes	C86			0.116		Yes	0.022
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05		1.53		Yes	0.00656	U	No	C85			0.00828	U	No	58.8	J	Yes	C86			0.287		Yes	0.0517
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06		1.27		Yes	2.46		Yes	C85			1.89		Yes	51.3	J	Yes	C86			0.309		Yes	0.0326
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07		1.13		Yes	1.18		Yes	C85			2.18		Yes	41.7	J	Yes	C86			0.201		Yes	0.0437
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08		0.68		Yes	0.592		Yes	C85			1.05		Yes	28.4	J	Yes	C86			0.142		Yes	0.0198
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01		0.0949		Yes	0.101		Yes	C85			0.163		Yes	3.73		Yes	C86			0.0159		Yes	0.00294
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02		0.0735		Yes	0.0661		Yes	C85			0.139		Yes	2.88		Yes	C86			0.0118		Yes	0.00244
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03		0.0549		Yes	0.0404		Yes	C85			0.0774		Yes	2.15		Yes	C86			0.0084		Yes	0.00115
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04		0.0384		Yes	0.0275		Yes	C85			0.062		Yes	1.51		Yes	C86			0.00559		Yes	0.000793
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05		0.051		Yes	0.0577		Yes	C85			0.0804		Yes	2.06		Yes	C86			0.00747		Yes	0.00114
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06		0.0238		Yes	0.0199		Yes	C85			0.0397		Yes	1.02		Yes	C86			0.00509		Yes	0.000435
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07		0.107		Yes	0.0814		Yes	C85			0.158		Yes	4.06	J	Yes	C86			0.0174		Yes	0.00372
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08		0.121		Yes	0.122		Yes	C85			0.198		Yes	4.73	J	Yes	C86			0.0239		Yes	0.00328
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01		0.559		Yes	0.635		Yes	C85			1.2		Yes	22.5	J	Yes	C86			0.111		Yes	0.0192
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02		0.844		Yes	0.725		Yes	C85			1.51		Yes	33.2	J	Yes	C86			0.167		Yes	0.0365
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03		0.609		Yes	0.74		Yes	C85			0.883		Yes	23.2	J	Yes	C86			0.101		Yes	0.0128
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04		0.413		Yes	0.322		Yes	C85			0.776		Yes	16.2	J	Yes	C86			0.0708		Yes	0.0133
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05		0.944		Yes	0.0248		Yes	C85			0.0343		Yes	36.3	J	Yes	C86			0.176		Yes	0.0317
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06		0.769		Yes	1.48		Yes	C85			1.15		Yes	31.1	J	Yes	C86			0.187		Yes	0.0196
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07		0.7		Yes	0.719		Yes	C85			1.33		Yes	25.9	J	Yes	C86			0.124		Yes	0.0269
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08		0.447		Yes	0.396		Yes	C85			0.695		Yes	18.5	J	Yes	C86			0.0928		Yes	0.0129
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010		0.895		Yes	1.23		Yes	C85			1.52		Yes	40.1	J	Yes	C86			0.18		Yes	0.0149
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032		0.873		Yes	1.16	J	Yes	C85			1.75		Yes	38	J	Yes	C86			0.177		Yes	0.0462
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037		0.428		Yes	0.402		Yes	C85			0.81		Yes	18.4	J	Yes	C86			0.0825		Yes	0.000787
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022		1.46		Yes	2.39		Yes	C85			2.49		Yes	61.8	J	Yes	C86			0.22		Yes	0.0359
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028		0.654		Yes	0.626		Yes	C85			0.992		Yes	27.7	J	Yes	C86			0.0875		Yes	0.0126
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010		0.158		Yes	0.167		Yes	C85			0.334		Yes	6.27	J	Yes	C86			0.0295		Yes	0.00744
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032		0.22		Yes	0.124		Yes	C85			0.341		Yes	8.57	J	Yes	C86			0.0358		Yes	0.0102
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037		0.0978		Yes	0.1		Yes	C85			0.125		Yes	3.85		Yes	C86			0.0175		Yes	0.00459
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022		0.209		Yes	0.144		Yes	C85			0.29		Yes	8.52	J	Yes	C86			0.0275		Yes	0.00464
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028		0.0835		Yes	0.0489	J	Yes	C85			0.126		Yes	3.22		Yes	C86			0.00986		Yes	0.00171
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010		0.566		Yes	0.756		Yes	C85			0.991		Yes	25	J	Yes	C86			0.113		Yes	0.00745
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032		0.639		Yes	0.788	J	Yes	C85			1.24		Yes	27.4	J	Yes	C86			0.126		Yes	0.0333
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037		0.285		Yes	0.271		Yes	C85			0.513		Yes	12.1	J	Yes	C86			0.0544		Yes	0.00221
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022		1.06		Yes	1.66		Yes	C85			1.78		Yes	44.6	J	Yes	C86			0.158		Yes	0.0258
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028		0.418		Yes	0.387	J	Yes	C85			0.633		Yes	17.6	J	Yes	C86			0.0554		Yes	0.00809

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-121		PCB-122			PCB-123			PCB-124			PCB-125			PCB-126			PCB-127			PCB-128		
					µg/kg		µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003		Yes	0.23		Yes	0.671		Yes	C108			C86			0.0794		Yes	0.0719		Yes	5.86		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004		Yes	0.896		Yes	2		Yes	C108			C86			0.169		Yes	0.0235		Yes	14.3	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001		Yes	0.489		Yes	3.84	J	Yes	C108			C86			0.364		Yes	0.415		Yes	37.3	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002		Yes	0.646		Yes	3.53	J	Yes	C108			C86			0.312		Yes	0.391		Yes	31.6	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003		Yes	0.496		Yes	1.25		Yes	C108			C86			0.144		Yes	0.0214		Yes	10.6	J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01		Yes	1.4		Yes	4.02	J	Yes	C108			C86			0.52		Yes	0.311		Yes	30.8	J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01		Yes	0.139		Yes	0.39		Yes	C108			C86			0.0485		Yes	0.00198	U	No	2.46		Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01		Yes	0.812		Yes	2.33	J	Yes	C108			C86			0.3		Yes	0.167		Yes	17.6	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01		Yes	0.0517		Yes	0.107		Yes	C108			C86			0.0143		Yes	0.000157	U	No	1.12		Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01		Yes	0.337		Yes	0.53		Yes	C108			C86			0.0905		Yes	0.0731		Yes	5.85		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01		Yes	0.818		Yes	2.09		Yes	C108			C86			0.233	J	Yes	0.0072	U	No	18.6	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02		Yes	0.667		Yes	1.54		Yes	C108			C86			0.198	J	Yes	0.0191	U	No	15.9	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03		Yes	0.651		Yes	1.7		Yes	C108			C86			0.204	J	Yes	0.00463	U	No	16.5	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	U	No	0.0324		Yes	0.0734		Yes	C108			C86			0.00745	J	Yes	0.00296	U	No	0.674		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02		Yes	0.0366		Yes	0.0843		Yes	C108			C86			0.0098	J	Yes	0.00298	U	No	0.763		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03		Yes	0.0221		Yes	0.0495		Yes	C108			C86			0.00611	J	Yes	0.000381	U	No	0.468		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01		Yes	0.515		Yes	1.31		Yes	C108			C86			0.146	J	Yes	0.00278	U	No	11.7	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02		Yes	0.408		Yes	0.942		Yes	C108			C86			0.121	J	Yes	0.00624	U	No	9.68	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03		Yes	0.386		Yes	1		Yes	C108			C86			0.12	J	Yes	0.00142	U	No	9.73	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01		Yes	0.383		Yes	0.761		Yes	C108			C86			0.113		Yes	0.0811		Yes	6.7		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02		Yes	0.553		Yes	1.11		Yes	C108			C86			0.183		Yes	0.122		Yes	10.7	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03		Yes	0.438		Yes	0.875		Yes	C108			C86			0.121		Yes	0.0965		Yes	6.84		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04		Yes	0.309		Yes	0.616		Yes	C108			C86			0.0933		Yes	0.0542		Yes	4.61		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05		Yes	0.629		Yes	1.36		Yes	C108			C86			0.164		Yes	0.0999		Yes	11.2	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06		Yes	0.583		Yes	1.26		Yes	C108			C86			0.197		Yes	0.0839		Yes	10.1	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07		Yes	0.459		Yes	0.899		Yes	C108			C86			0.138		Yes	0.0644		Yes	8.17	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08		Yes	0.302		Yes	0.61		Yes	C108			C86			0.0817		Yes	0.0392		Yes	5.54		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01		Yes	0.045		Yes	0.0733		Yes	C108			C86			0.0099	J	Yes	0.0018	U	No	0.643		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02		Yes	0.0332		Yes	0.0629		Yes	C108			C86			0.0084	J	Yes	0.000705	U	No	0.481		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03		Yes	0.0261		Yes	0.0489		Yes	C108			C86			0.00746	J	Yes	0.000735	U	No	0.38		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	EMPC-J	Yes	0.0182		Yes	0.0298		Yes	C108			C86			0.00436	J	Yes	0.000596	U	No	0.223		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	EMPC-J	Yes	0.0225		Yes	0.0403		Yes	C108			C86			0.00618	J	Yes	0.000689	U	No	0.336		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	U	No	0.0123		Yes	0.0224		Yes	C108			C86			0.00397	J	Yes	0.000496	U	No	0.17		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07		Yes	0.0507		Yes	0.0897		Yes	C108			C86			0.0123		Yes	0.00165	U	No	0.726		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08		Yes	0.0574		Yes	0.108		Yes	C108			C86			0.0134		Yes	0.00105	U	No	0.948		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01		Yes	0.256		Yes	0.503		Yes	C108			C86			0.0743	J	Yes	0.051		Yes	4.43		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02		Yes	0.349		Yes	0.7		Yes	C108			C86			0.115	J	Yes	0.0743		Yes	6.69	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03		Yes	0.279		Yes	0.556		Yes	C108			C86			0.0772	J	Yes	0.0594		Yes	4.35		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	EMPC-J	Yes	0.19		Yes	0.376		Yes	C108			C86			0.0569	J	Yes	0.0322		Yes	2.82		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	EMPC-J	Yes	0.389		Yes	0.837		Yes	C108			C86			0.102	J	Yes	0.0605		Yes	6.9	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06		Yes	0.354		Yes	0.762		Yes	C108			C86			0.119	J	Yes	0.0503		Yes	6.11	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07		Yes	0.288		Yes	0.559		Yes	C108			C86			0.0852		Yes	0.0377		Yes	5.04	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08		Yes	0.2		Yes	0.401		Yes	C108			C86			0.0532		Yes	0.0231		Yes	3.63		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	U	No	0.46		Yes	0.729		Yes	C108			C86			0.0902		Yes	0.0661		Yes	7.21		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032		Yes	0.353		Yes	0.721		Yes	C108			C86			0.106		Yes	0.0777		Yes	7.35		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	U	No	0.156		Yes	0.332		Yes	C108			C86			0.0481		Yes	0.0378		Yes	3.86		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022		Yes	0.61		Yes	1.17		Yes	C108			C86			0.164		Yes	0.119		Yes	10.2	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	EMPC-J	Yes	0.279		Yes	0.547		Yes	C108			C86			0.0816		Yes	0.0469		Yes	5.51		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010		Yes	0.0843		Yes	0.142		Yes	C108			C86			0.0159		Yes	0.00131	U	No	1		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032		Yes	0.084		Yes	0.162		Yes	C108			C86			0.022	J	Yes	0.000632	U	No	1.42		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037		Yes	0.0354		Yes	0.0833		Yes	C108			C86			0.0101	J	Yes	0.00276	U	No	0.676		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022		Yes	0.082		Yes	0.177		Yes	C108			C86			0.025		Yes	0.00133	U	No	1.21		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	EMPC-J	Yes	0.0338		Yes	0.0767		Yes	C108			C86			0.0105		Yes	0.00116	U	No	0.497		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010		Yes	0.292		Yes	0.467		Yes	C108			C86			0.0571		Yes	0.0369		Yes	4.44		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032		Yes	0.256		Yes	0.52		Yes	C108			C86			0.0758	J	Yes	0.0499		Yes	5.22		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037		Yes	0.104		Yes	0.224		Yes	C108			C86			0.0316	J	Yes	0.022		Yes	2.48		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022		Yes	0.439		Yes	0.849		Yes	C108			C86			0.119		Yes	0.0808		Yes	7.3	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	EMPC-J	Yes	0.177		Yes	0.352		Yes	C108			C86			0.0522		Yes	0.0277		Yes	3.43		Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	PCB-129 µg/kg			PCB-130 µg/kg			PCB-131 µg/kg			PCB-132 µg/kg			PCB-133 µg/kg			PCB-134 µg/kg			PCB-135 µg/kg			PCB-136 µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	50.6	J	Yes	2.06		Yes	0.158		Yes	1.98		Yes	0.659		Yes	0.491		Yes	7.66		Yes	0.258	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	108	J	Yes	5.88	J	Yes	0.271		Yes	9.28	J	Yes	1.48		Yes	0.952		Yes	15.5	J	Yes	1.94	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	233	J	Yes	11.4	J	Yes	0.209		Yes	6.64	J	Yes	4.33	J	Yes	1.82		Yes	17.3	J	Yes	0.506	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	216	J	Yes	9.52	J	Yes	0.564		Yes	13.6	J	Yes	3.65	J	Yes	2.71		Yes	20.6	J	Yes	1.49	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	89	J	Yes	3.74	J	Yes	0.293		Yes	3.54	J	Yes	1.2		Yes	0.929		Yes	13.8	J	Yes	0.493	
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	228	J	Yes	10	J	Yes	1.48		Yes	34.7	J	Yes	3.47		Yes	5.48	J	Yes	42.3	J	Yes	10.3	J
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	20.4	J	Yes	0.939		Yes	0.132		Yes	3.44		Yes	0.325		Yes	0.516		Yes	3.79		Yes	0.967	
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	131	J	Yes	5.78	J	Yes	0.852		Yes	20.1	J	Yes	2		Yes	3.17	J	Yes	24.4	J	Yes	5.95	J
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	8.32		Yes	0.339		Yes	0.0248		Yes	0.699		Yes	0.106		Yes	0.14		Yes	1.22		Yes	0.197	
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	41.7	J	Yes	2.44		Yes	0.341		Yes	9.53	J	Yes	0.676		Yes	1.46		Yes	9.37	J	Yes	2.76	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	125	J	Yes	6.77	J	Yes	1.08		Yes	22.8	J	Yes	2.08		Yes	4.5	J	Yes	27.1	J	Yes	8.92	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	114	J	Yes	6.2	J	Yes	0.91		Yes	19.5	J	Yes	2.07		Yes	3.64		Yes	24.4	J	Yes	6.37	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	110	J	Yes	6.01	J	Yes	0.858		Yes	18.7	J	Yes	1.96		Yes	3.54		Yes	23.1	J	Yes	6.58	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	4.45		Yes	0.246		Yes	0.046		Yes	1.07		Yes	0.0653		Yes	0.18		Yes	1.07		Yes	0.352	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	5.19		Yes	0.289		Yes	0.0477		Yes	1.09		Yes	0.0871		Yes	0.206		Yes	1.17		Yes	0.363	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	3.13		Yes	0.175		Yes	0.0282		Yes	0.641		Yes	0.0535		Yes	0.122		Yes	0.696		Yes	0.208	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	78.5	J	Yes	4.25	J	Yes	0.681		Yes	14.4	J	Yes	1.3		Yes	2.83	J	Yes	17.1	J	Yes	5.61	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	69.3	J	Yes	3.77	J	Yes	0.556		Yes	11.9	J	Yes	1.26		Yes	2.23		Yes	14.9	J	Yes	3.9	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	64.9	J	Yes	3.55	J	Yes	0.508		Yes	11.1	J	Yes	1.16		Yes	2.1		Yes	13.6	J	Yes	3.89	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	49.3	J	Yes	2.18		Yes	0.365		Yes	7.8	J	Yes	0.816		Yes	1.58		Yes	11.3	J	Yes	3.02	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	79.7	J	Yes	3.78		Yes	0.000674	U	No	13.4	J	Yes	1.37		Yes	2.56		Yes	18.5	J	Yes	4.92	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	65.6	J	Yes	2.46		Yes	0.44		Yes	10.2	J	Yes	0.899		Yes	1.68		Yes	17.4	J	Yes	4.59	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	39.2	J	Yes	1.7		Yes	0.281		Yes	6.56	J	Yes	0.62		Yes	1.27		Yes	9.38	J	Yes	2.37	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	88.2	J	Yes	3.88		Yes	0.579		Yes	12.5	J	Yes	1.52		Yes	1.87		Yes	17.7	J	Yes	4.46	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	71.6	J	Yes	3.03		Yes	0.49		Yes	10.4	J	Yes	1.28		Yes	1.78		Yes	16.4	J	Yes	3.7	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	59.1	J	Yes	2.93		Yes	0.418		Yes	9.72	J	Yes	1.05		Yes	1.56		Yes	13.6	J	Yes	3.5	
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	38.1	J	Yes	1.77		Yes	0.248		Yes	5.55	J	Yes	0.681		Yes	0.897		Yes	7.71		Yes	1.96	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	4.86		Yes	0.219		Yes	0.0426		Yes	0.927		Yes	0.0794		Yes	0.159		Yes	1.24		Yes	0.395	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	3.64		Yes	0.172		Yes	0.0322		Yes	0.74		Yes	0.057		Yes	0.118		Yes	0.919		Yes	0.302	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	3.49		Yes	0.133		Yes	0.0286		Yes	0.649		Yes	0.0488		Yes	0.103		Yes	1.05		Yes	0.316	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	1.86		Yes	0.0795		Yes	0.016		Yes	0.367		Yes	0.0289		Yes	0.0599		Yes	0.492		Yes	0.152	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	2.58		Yes	0.116		Yes	0.0215		Yes	0.467		Yes	0.0395		Yes	0.071		Yes	0.611		Yes	0.187	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	1.26		Yes	0.0533		Yes	0.0112		Yes	0.232		Yes	0.0184		Yes	0.0422		Yes	0.331		Yes	0.0972	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	5.87		Yes	0.289		Yes	0.0437		Yes	0.99		Yes	0.0964		Yes	0.173		Yes	1.35		Yes	0.403	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	7.09		Yes	0.327		Yes	0.0524		Yes	1.08		Yes	0.117		Yes	0.186		Yes	1.48		Yes	0.428	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	32.6	J	Yes	1.44		Yes	0.244		Yes	5.22	J	Yes	0.54		Yes	1.05		Yes	7.53	J	Yes	2.04	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	49.9	J	Yes	2.37		Yes	0.0128		Yes	8.44	J	Yes	0.855		Yes	1.6		Yes	11.6	J	Yes	3.11	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	41.6	J	Yes	1.56		Yes	0.281		Yes	6.51	J	Yes	0.571		Yes	1.07		Yes	11.1	J	Yes	2.94	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	23.9	J	Yes	1.04		Yes	0.173		Yes	4.03	J	Yes	0.378		Yes	0.775		Yes	5.74	J	Yes	1.46	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	54.3	J	Yes	2.39		Yes	0.358		Yes	7.73	J	Yes	0.934		Yes	1.16		Yes	10.9	J	Yes	2.77	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	43.3	J	Yes	1.83		Yes	0.298		Yes	6.31	J	Yes	0.773		Yes	1.08		Yes	9.94	J	Yes	2.25	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	36.7	J	Yes	1.82		Yes	0.261		Yes	6.05	J	Yes	0.649		Yes	0.977		Yes	8.46	J	Yes	2.2	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	25.2	J	Yes	1.17		Yes	0.166		Yes	3.69	J	Yes	0.446		Yes	0.601		Yes	5.11		Yes	1.32	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	50.4	J	Yes	2.84		Yes	0.578		Yes	12.4	J	Yes	0.844		Yes	2.24		Yes	13.6	J	Yes	4.39	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	55.8	J	Yes	2.9		Yes	0.494		Yes	10.5	J	Yes	0.958		Yes	1.63		Yes	11.5	J	Yes	3.21	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	23.9	J	Yes	1.36		Yes	0.239		Yes	6.06	J	Yes	0.399		Yes	1.06		Yes	5.69		Yes	1.92	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	88.1	J	Yes	4.8	J	Yes	0.777		Yes	16.8	J	Yes	1.22		Yes	2.67		Yes	17.6	J	Yes	4.58	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	37.9	J	Yes	2.12		Yes	0.332		Yes	7.43	J	Yes	0.524		Yes	1.17		Yes	7.41		Yes	1.96	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	7.89		Yes	0.481		Yes	0.0884		Yes	2.06		Yes	0.134		Yes	0.321		Yes	1.93		Yes	0.74	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	12.6	J	Yes	0.693		Yes	0.113		Yes	2.55		Yes	0.222		Yes	0.365		Yes	2.47		Yes	0.71	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	5.2		Yes	0.318		Yes	0.0566		Yes	1.39		Yes	0.0935		Yes	0.213		Yes	1.24		Yes	0.415	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	11.7	J	Yes	0.657		Yes	0.104		Yes	2.34		Yes	0.157		Yes	0.335		Yes	2.25		Yes	0.602	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	4.03		Yes	0.236		Yes	0.0382		Yes	0.901		Yes	0.0567		Yes	0.123		Yes	0.758		Yes	0.263	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	31.4	J	Yes	1.79		Yes	0.36		Yes	7.79	J	Yes	0.527		Yes	1.38		Yes	8.4	J	Yes	2.76	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	40.3	J	Yes	2.11		Yes	0.357		Yes	7.65	J	Yes	0.694		Yes	1.18		Yes	8.26	J	Yes	2.31	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	15.8	J	Yes	0.909		Yes	0.16		Yes	4.04	J	Yes	0.267		Yes	0.693		Yes	3.76		Yes	1.27	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	63.4	J	Yes	3.46	J	Yes	0.56		Yes	12.1	J	Yes	0.877		Yes	1.92		Yes	12.6	J	Yes	3.3	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	23.9	J	Yes	1.34		Yes	0.21		Yes	4.73	J	Yes	0.331		Yes	0.737		Yes	4.66		Yes	1.26	

BERA Tissue Chemistry Data from Above Dundee Dam

						PCB-137			PCB-138			PCB-139			PCB-140			PCB-141			PCB-142			PCB-143			
						µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	Yes	1.75		Yes	C129			0.599		Yes	C139			6.12	J	Yes	0.00125	U	No	0.00115	U	No	0.756
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes	5.25	J	Yes	C129			1.52		Yes	C139			13.8	J	Yes	0.00203		Yes	0.0924		Yes	2.83
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes	11.1	J	Yes	C129			2.52		Yes	C139			21.3	J	Yes	0.00194		Yes	0.0469		Yes	1.79
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	Yes	8.87	J	Yes	C129			2.5		Yes	C139			18.8	J	Yes	0.0146		Yes	0.0697		Yes	2.27
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes	3.38	J	Yes	C129			1.07		Yes	C139			10.5	J	Yes	0.00134	U	No	0.0318		Yes	1.39
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes	9.47	J	Yes	C129			3.37		Yes	C139			29.4	J	Yes	0.0341		Yes	0.255		Yes	6.96
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	Yes	0.802		Yes	C129			0.291		Yes	C139			2.85		Yes	0.00307		Yes	0.00124	U	No	0.601
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes	5.43	J	Yes	C129			1.94		Yes	C139			17	J	Yes	0.0196		Yes	0.136		Yes	4
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	Yes	0.318		Yes	C129			0.111		Yes	C139			0.979		Yes	0.000178	U	No	0.000166	U	No	0.197
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	Yes	1.82		Yes	C129			0.646		Yes	C139			6.22	J	Yes	0.000705	U	No	0.000598	U	No	1.41
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes	5.21	J	Yes	C129			2.08		Yes	C139			17.6	J	Yes	0.0183	EMPC-J	Yes	0.00562	U	No	4.18
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes	4.57	J	Yes	C129			1.9		Yes	C139			15.7	J	Yes	0.00477	U	No	0.0885		Yes	3.74
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes	4.27	J	Yes	C129			1.81		Yes	C139			15	J	Yes	0.0036	U	No	0.116		Yes	3.53
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	Yes	0.183		Yes	C129			0.0761		Yes	C139			0.651		Yes	0.000858	U	No	0.00621		Yes	0.16
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	Yes	0.185		Yes	C129			0.087		Yes	C139			0.724		Yes	0.00061	U	No	0.000544	U	No	0.176
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	Yes	0.121		Yes	C129			0.0537		Yes	C139			0.429		Yes	0.000259	U	No	0.000231	U	No	0.104
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes	3.27	J	Yes	C129			1.31		Yes	C139			11.1	J	Yes	0.0114	EMPC-J	Yes	0.00412		Yes	2.63
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes	2.77	J	Yes	C129			1.15		Yes	C139			9.54	J	Yes	0.00153	U	No	0.0522		Yes	2.28
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes	2.52	J	Yes	C129			1.07		Yes	C139			8.85	J	Yes	0.0011	U	No	0.0671		Yes	2.08
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	Yes	2.14		Yes	C129			0.805		Yes	C139			7.09	J	Yes	0.000554	U	No	0.00047	U	No	1.57
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes	3.67		Yes	C129			1.85		Yes	C139			12	J	Yes	0.0163		Yes	0.000588	U	No	2.7
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes	2.16		Yes	C129			0.82		Yes	C139			11.3	J	Yes	0.00101	U	No	0.0487		Yes	2.52
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	Yes	1.66		Yes	C129			0.628		Yes	C139			5.73	J	Yes	0.00756		Yes	0.000696	U	No	1.3
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	Yes	3.61		Yes	C129			1.41		Yes	C139			12.9	J	Yes	0.00179	U	No	0.119		Yes	2.7
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes	3.2		Yes	C129			1.34		Yes	C139			10.3	J	Yes	0.0168		Yes	0.14		Yes	2.4
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	Yes	2.52		Yes	C129			0.955		Yes	C139			9.16	J	Yes	0.00146	U	No	0.0772		Yes	1.98
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	Yes	1.74		Yes	C129			0.647		Yes	C139			5.28	J	Yes	0.00689		Yes	0.0429		Yes	1.12
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	Yes	0.184		Yes	C129			0.0794		Yes	C139			0.7		Yes	0.00129		Yes	0.00572		Yes	0.169
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	Yes	0.137		Yes	C129			0.0597		Yes	C139			0.541		Yes	0.000411	U	No	0.00607		Yes	0.132
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	Yes	0.105		Yes	C129			0.0457		Yes	C139			0.632		Yes	0.000467	U	No	0.00448		Yes	0.15
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	Yes	0.0645		Yes	C129			0.0303		Yes	C139			0.274		Yes	0.00056	U	No	0.00278		Yes	0.0673
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	Yes	0.0944		Yes	C129			0.042		Yes	C139			0.372		Yes	0.000545	U	No	0.00476		Yes	0.0886
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	Yes	0.0545		Yes	C129			0.022		Yes	C139			0.173		Yes	0.00052	U	No	0.002		Yes	0.0464
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	Yes	0.241		Yes	C129			0.09		Yes	C139			0.845		Yes	0.00144	U	No	0.00692		Yes	0.188
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	Yes	0.324		Yes	C129			0.12		Yes	C139			0.949		Yes	0.00119	U	No	0.0119		Yes	0.21
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	Yes	1.41		Yes	C129			0.533		Yes	C139			4.69	J	Yes	0.000657		Yes	0.00229		Yes	1.04
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes	2.29		Yes	C129			1.15		Yes	C139			7.51	J	Yes	0.00999		Yes	0.00256		Yes	1.69
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes	1.37		Yes	C129			0.521		Yes	C139			7.18	J	Yes	0.0004	U	No	0.0316		Yes	1.61
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	Yes	1.01		Yes	C129			0.384		Yes	C139			3.5	J	Yes	0.00458		Yes	0.00134		Yes	0.796
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	Yes	2.22		Yes	C129			0.868		Yes	C139			7.94	J	Yes	0.000648	U	No	0.0738		Yes	1.67
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes	1.94		Yes	C129			0.81		Yes	C139			6.23	J	Yes	0.0102		Yes	0.0845		Yes	1.45
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes	1.56		Yes	C129			0.592		Yes	C139			5.67	J	Yes	0.000726	U	No	0.0477		Yes	1.23
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	Yes	1.15		Yes	C129			0.427		Yes	C139			3.47	J	Yes	0.00426		Yes	0.03		Yes	0.741
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	Yes	2.14		Yes	C129			0.947		Yes	C139			6.17	J	Yes	0.0111		Yes	0.00214	U	No	1.96
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes	2.6		Yes	C129			0.914		Yes	C139			5.34	J	Yes	0.0107		Yes	0.058		Yes	1.71
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes	0.865		Yes	C129			0.395		Yes	C139			3.15		Yes	0.000928	U	No	0.0373		Yes	0.794
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes	3.82		Yes	C129			1.31		Yes	C139			7.77	J	Yes	0.0204		Yes	0.0749		Yes	2.64
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	Yes	1.61		Yes	C129			0.567		Yes	C139			3.6		Yes	0.00863		Yes	0.0439		Yes	1.11
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	Yes	0.38		Yes	C129			0.15		Yes	C139			1.07		Yes	0.00127	U	No	0.0178		Yes	0.288
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	Yes	0.471		Yes	C129			0.21		Yes	C139			1.35		Yes	0.00317		Yes	0.014		Yes	0.376
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	Yes	0.201		Yes	C129			0.0928		Yes	C139			0.733		Yes	0.000691	U	No	0.0125		Yes	0.179
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	Yes	0.45		Yes	C129			0.172		Yes	C139			1.08		Yes	0.00132	U	No	0.0148		Yes	0.334
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	Yes	0.143		Yes	C129			0.0617		Yes	C139			0.397		Yes	0.00107	U	No	0.00654		Yes	0.118
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	Yes	1.36		Yes	C129			0.592		Yes	C139			3.9	J	Yes	0.00643		Yes	0.00853		Yes	1.21
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes	1.84		Yes	C129			0.661		Yes	C139			3.91	J	Yes	0.008		Yes	0.0422		Yes	1.23
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes	0.577		Yes	C129			0.264		Yes	C139			2.1		Yes	0.000413	U	No	0.0266		Yes	0.528
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes	2.73		Yes	C129			0.942		Yes	C139			5.61	J	Yes	0.014		Yes	0.0555		Yes	1.9
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes	1		Yes	C129			0.358		Yes	C139			2.27		Yes	0.00528		Yes	0.0284		Yes	0.699

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-144		PCB-145			PCB-146			PCB-147			PCB-148			PCB-149			PCB-150			PCB-151		
					µg/kg		µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003		Yes	0.000799	U	No	7.7	J	Yes	19.2	J	Yes	0.051		Yes	C147			0.0199		Yes	C135		
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004		Yes	0.00109	J	Yes	18.2	J	Yes	43.8	J	Yes	0.141		Yes	C147			0.0587		Yes	C135		
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001		Yes	0.000675	U	No	51	J	Yes	36.1	J	Yes	0.255		Yes	C147			0.0389		Yes	C135		
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002		Yes	0.00189		Yes	41.4	J	Yes	53.7	J	Yes	0.22		Yes	C147			0.077		Yes	C135		
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003		Yes	0.00108	U	No	13.7	J	Yes	33.3	J	Yes	0.0942		Yes	C147			0.0393		Yes	C135		
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	J	Yes	0.0323		Yes	35.6	J	Yes	116	J	Yes	0.352		Yes	C147			0.25		Yes	C135		
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01		Yes	0.00289		Yes	3.08		Yes	10.4	J	Yes	0.0257		Yes	C147			0.0214		Yes	C135		
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	J	Yes	0.0186		Yes	20.4	J	Yes	66.8	J	Yes	0.2		Yes	C147			0.143		Yes	C135		
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01		Yes	0.000504	J	Yes	1.22		Yes	3.06		Yes	0.0101		Yes	C147			0.00419		Yes	C135		
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01		Yes	0.000447	U	No	6.4	J	Yes	26.1	J	Yes	0.1		Yes	C147			0.0811		Yes	C135		
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	J	Yes	0.0239		Yes	19.9	J	Yes	70.5	J	Yes	0.317		Yes	C147			0.273		Yes	C135		
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02		Yes	0.0167		Yes	18.7	J	Yes	62.8	J	Yes	0.35		Yes	C147			0.261		Yes	C135		
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03		Yes	0.0208		Yes	18	J	Yes	58.8	J	Yes	0.319		Yes	C147			0.243		Yes	C135		
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01		Yes	0.000509	U	No	0.612		Yes	2.8		Yes	0.0101		Yes	C147			0.00876		Yes	C135		
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02		Yes	0.000767	EMPC-J	Yes	0.787		Yes	3.11		Yes	0.0155		Yes	C147			0.0125		Yes	C135		
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03		Yes	0.000879	J	Yes	0.472		Yes	1.82		Yes	0.00892		Yes	C147			0.00684		Yes	C135		
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	J	Yes	0.0148		Yes	12.5	J	Yes	44.4	J	Yes	0.199		Yes	C147			0.171		Yes	C135		
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02		Yes	0.0102	EMPC-J	Yes	11.3	J	Yes	38.3	J	Yes	0.213		Yes	C147			0.159		Yes	C135		
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03		Yes	0.0124	J	Yes	10.6	J	Yes	34.8	J	Yes	0.188		Yes	C147			0.143		Yes	C135		
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01		Yes	0.00817		Yes	8.11	J	Yes	27.2	J	Yes	0.0961		Yes	C147			0.0751		Yes	C135		
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02		Yes	0.0125		Yes	12.8	J	Yes	43.6	J	Yes	0.188		Yes	C147			0.144		Yes	C135		
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03		Yes	0.00882		Yes	10.2	J	Yes	40.5	J	Yes	0.0826		Yes	C147			0.0588		Yes	C135		
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04		Yes	0.00655		Yes	6.29	J	Yes	22	J	Yes	0.0729		Yes	C147			0.0563		Yes	C135		
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05		Yes	0.0136		Yes	15.7	J	Yes	42.5	J	Yes	0.156		Yes	C147			0.113		Yes	C135		
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06		Yes	0.0116		Yes	13.5	J	Yes	34.9	J	Yes	0.111		Yes	C147			0.0848		Yes	C135		
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07		Yes	0.0103		Yes	10.5	J	Yes	31.1	J	Yes	0.111		Yes	C147			0.0886		Yes	C135		
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08		Yes	0.00636		Yes	6.96	J	Yes	17.5	J	Yes	0.0633		Yes	C147			0.0478		Yes	C135		
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01		Yes	0.00128		Yes	0.764		Yes	2.96		Yes	0.00987		Yes	C147			0.00783		Yes	C135		
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02		Yes	0.000897	J	Yes	0.552		Yes	2.2		Yes	0.00777		Yes	C147			0.00668		Yes	C135		
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03		Yes	0.000851	J	Yes	0.545		Yes	2.45		Yes	0.00473		Yes	C147			0.00363		Yes	C135		
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04		Yes	0.000418	U	No	0.286		Yes	1.16		Yes	0.00344		Yes	C147			0.00292	EMPC-J	Yes	C135		
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05		Yes	0.00042	U	No	0.402		Yes	1.52		Yes	0.00426		Yes	C147			0.00381		Yes	C135		
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06		Yes	0.000394	U	No	0.2		Yes	0.744		Yes	0.00212		Yes	C147			0.00153	EMPC-J	Yes	C135		
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07		Yes	0.00117	U	No	0.938		Yes	3.19		Yes	0.0107		Yes	C147			0.00901		Yes	C135		
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08		Yes	0.000944	U	No	1.17		Yes	3.38		Yes	0.0119		Yes	C147			0.00913		Yes	C135		
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01		Yes	0.00559		Yes	5.36	J	Yes	18.1	J	Yes	0.0638		Yes	C147			0.0499		Yes	C135		
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02		Yes	0.00795	J	Yes	8	J	Yes	27.4	J	Yes	0.117		Yes	C147			0.0902		Yes	C135		
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03		Yes	0.00574	J	Yes	6.47	J	Yes	25.8	J	Yes	0.0525		Yes	C147			0.0375		Yes	C135		
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04		Yes	0.00396		Yes	3.83	J	Yes	13.5	J	Yes	0.0445		Yes	C147			0.0345	EMPC-J	Yes	C135		
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05		Yes	0.0083		Yes	9.64	J	Yes	26.3	J	Yes	0.0959		Yes	C147			0.0698		Yes	C135		
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06		Yes	0.00702		Yes	8.15	J	Yes	21.2	J	Yes	0.0672		Yes	C147			0.0513	EMPC-J	Yes	C135		
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07		Yes	0.00622		Yes	6.48	J	Yes	19.4	J	Yes	0.0689		Yes	C147			0.0552		Yes	C135		
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR09-MAWB-Comp08		Yes	0.0039		Yes	4.55	J	Yes	11.6	J	Yes	0.0419		Yes	C147			0.0317		Yes	C135		
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010		Yes	0.016	EMPC-J	Yes	7.92	J	Yes	34.3	J	Yes	0.142		Yes	C147			0.124		Yes	C135		
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032		Yes	0.0118		Yes	9.3	J	Yes	30.3	J	Yes	0.167		Yes	C147			0.121		Yes	C135		
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037		Yes	0.00499	EMPC-J	Yes	3.53		Yes	15.2	J	Yes	0.0775		Yes	C147			0.0615		Yes	C135		
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022		Yes	0.0157		Yes	13.2	J	Yes	51.1	J	Yes	0.116		Yes	C147			0.0905		Yes	C135		
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028		Yes	0.00723		Yes	5.39	J	Yes	21.3	J	Yes	0.0532		Yes	C147			0.0357		Yes	C135		
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010		Yes	0.00299		Yes	1.23		Yes	5.19		Yes	0.0209		Yes	C147			0.0211		Yes	C135		
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032		Yes	0.00225		Yes	2.13		Yes	6.7		Yes	0.0377		Yes	C147			0.0279		Yes	C135		
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037		Yes	0.00124	EMPC-J	Yes	0.827		Yes	3.4		Yes	0.017		Yes	C147			0.0137		Yes	C135		
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022		Yes	0.00205		Yes	1.71		Yes	6.57		Yes	0.0141		Yes	C147			0.0128		Yes	C135		
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028		Yes	0.000803	U	No	0.559		Yes	2.29		Yes	0.00525		Yes	C147			0.00462		Yes	C135		
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010		Yes	0.0102	EMPC-J	Yes	4.94	J	Yes	21.3	J	Yes	0.088		Yes	C147			0.0781		Yes	C135		
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032		Yes	0.00837		Yes	6.73	J	Yes	21.8	J	Yes	0.121		Yes	C147			0.0876		Yes	C135		
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037		Yes	0.00337	EMPC-J	Yes	2.36		Yes	10.1	J	Yes	0.0513		Yes	C147			0.0408		Yes	C135		
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022		Yes	0.0113		Yes	9.49	J	Yes	36.7	J	Yes	0.0831		Yes	C147			0.0654		Yes	C135		
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028		Yes	0.0044		Yes	3.39	J	Yes	13.4	J	Yes	0.0333		Yes	C147			0.0228		Yes	C135		

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	PCB-152 µg/kg			PCB-153 µg/kg			PCB-154 µg/kg			PCB-155 µg/kg			PCB-156 µg/kg			PCB-157 µg/kg			PCB-158 µg/kg			PCB-159 µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.00928		Yes	48.4	J	Yes	0.353		Yes	0.0614		Yes	4.74		Yes	C156			4.54	J	Yes	0.317	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	0.0373		Yes	89	J	Yes	1.12		Yes	0.112		Yes	11.4	J	Yes	C156			9.76	J	Yes	0.683	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	0.0193		Yes	221	J	Yes	2.35		Yes	0.372		Yes	36.4	J	Yes	C156			24.7	J	Yes	0.795	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	0.0343		Yes	207	J	Yes	2.05		Yes	0.369		Yes	28.4	J	Yes	C156			20.6	J	Yes	0.771	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	0.0182		Yes	76.8	J	Yes	0.627		Yes	0.122		Yes	8.96	J	Yes	C156			8.12	J	Yes	0.552	
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	0.126		Yes	207	J	Yes	2.22		Yes	0.38		Yes	28.1	J	Yes	C156			21.7	J	Yes	1.03	
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.0124		Yes	17.7	J	Yes	0.172		Yes	0.0312		Yes	2.3		Yes	C156			1.92		Yes	0.00235	U
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	0.0731		Yes	119	J	Yes	1.27		Yes	0.217		Yes	16.1	J	Yes	C156			12.5	J	Yes	0.551	
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.00262		Yes	6.78		Yes	0.0683		Yes	0.00746		Yes	0.774		Yes	C156			0.756		Yes	0.0275	
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	0.00949		Yes	36.5	J	Yes	0.508		Yes	0.0501		Yes	3.96		Yes	C156			3.87		Yes	0.3	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	0.139		Yes	105	J	Yes	1.8		Yes	0.187		Yes	15.8	J	Yes	C156			11.6	J	Yes	0.966	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	0.125		Yes	96.8	J	Yes	1.8		Yes	0.168		Yes	12.1	J	Yes	C156			10.4	J	Yes	0.887	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	0.129		Yes	91.7	J	Yes	1.69		Yes	0.165		Yes	11.8	J	Yes	C156			10.1	J	Yes	0.878	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.00494		Yes	3.14	J	Yes	0.0565		Yes	0.00443		Yes	0.429		Yes	C156			0.408		Yes	0.0273	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.0069		Yes	3.92	J	Yes	0.0772		Yes	0.00743		Yes	0.489		Yes	C156			0.471		Yes	0.039	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.00422		Yes	2.38	J	Yes	0.0456		Yes	0.00442		Yes	0.303		Yes	C156			0.282		Yes	0.0199	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	0.0873		Yes	65.7	J	Yes	1.13		Yes	0.117		Yes	9.87	J	Yes	C156			7.28	J	Yes	0.604	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	0.0765		Yes	58.6	J	Yes	1.09		Yes	0.102		Yes	7.33	J	Yes	C156			6.32	J	Yes	0.538	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	0.0763		Yes	54	J	Yes	0.996		Yes	0.0972		Yes	6.95	J	Yes	C156			5.96	J	Yes	0.516	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	0.0455		Yes	43	J	Yes	0.599		Yes	0.0815		Yes	5.07		Yes	C156			4.58	J	Yes	0.243	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	0.0727		Yes	71.1	J	Yes	1.06		Yes	0.129		Yes	8.37	J	Yes	C156			7.66	J	Yes	0.375	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	0.0337		Yes	57.8	J	Yes	0.566		Yes	0.0824		Yes	6.06		Yes	C156			5.93	J	Yes	0.52	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	0.0354		Yes	34.5	J	Yes	0.447		Yes	0.065		Yes	3.91		Yes	C156			3.65		Yes	0.176	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	0.0592		Yes	75.5	J	Yes	0.992		Yes	0.144		Yes	9.97	J	Yes	C156			8.73	J	Yes	0.309	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	0.0526		Yes	62.3	J	Yes	0.893		Yes	0.0559		Yes	7.77		Yes	C156			6.8	J	Yes	0.221	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	0.0556		Yes	51.5	J	Yes	0.664		Yes	0.109		Yes	6.52		Yes	C156			5.74	J	Yes	0.278	
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	0.0329		Yes	33.4	J	Yes	0.424		Yes	0.0421		Yes	4.03		Yes	C156			3.49		Yes	0.115	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.0062		Yes	3.91		Yes	0.059		Yes	0.00723		Yes	0.465		Yes	C156			0.459		Yes	0.000815	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.00453		Yes	2.92		Yes	0.0472		Yes	0.00494		Yes	0.347		Yes	C156			0.348		Yes	0.00054	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.00221		Yes	3.04		Yes	0.0308		Yes	0.00454		Yes	0.335		Yes	C156			0.325		Yes	0.000607	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.00252		Yes	1.5		Yes	0.0224		Yes	0.00286		Yes	0.184		Yes	C156			0.177		Yes	0.000555	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.00229		Yes	2.14		Yes	0.029		Yes	0.0038		Yes	0.271		Yes	C156			0.251		Yes	0.000757	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.00126		Yes	1.03		Yes	0.0151		Yes	0.000831	J	Yes	0.121		Yes	C156			0.118		Yes	0.000386	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.00623		Yes	4.88		Yes	0.0634		Yes	0.00942		Yes	0.602		Yes	C156			0.574		Yes	0.00144	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.00588	EMPC-J	Yes	5.75		Yes	0.0804		Yes	0.00841		Yes	0.685		Yes	C156			0.677		Yes	0.00133	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	0.0308		Yes	28.3	J	Yes	0.397		Yes	0.0536		Yes	3.34		Yes	C156			3.03	J	Yes	0.152	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	0.046		Yes	44.4	J	Yes	0.663		Yes	0.0804		Yes	5.22	J	Yes	C156			4.79	J	Yes	0.228	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	0.0215		Yes	36.7	J	Yes	0.359		Yes	0.0523		Yes	3.85		Yes	C156			3.77	J	Yes	0.319	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	0.022		Yes	21	J	Yes	0.273		Yes	0.0396		Yes	2.39		Yes	C156			2.23		Yes	0.104	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	0.0367		Yes	46.4	J	Yes	0.611		Yes	0.0885		Yes	6.13	J	Yes	C156			5.37	J	Yes	0.187	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	0.032		Yes	37.7	J	Yes	0.54		Yes	0.0338	J	Yes	4.7		Yes	C156			4.11	J	Yes	0.132	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	0.0349		Yes	31.9	J	Yes	0.412		Yes	0.0672		Yes	4.03		Yes	C156			3.57	J	Yes	0.162	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	0.0216	EMPC-J	Yes	21.9	J	Yes	0.281		Yes	0.0281		Yes	2.64		Yes	C156			2.32		Yes	0.0673	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	0.0801		Yes	41.6	J	Yes	0.79		Yes	0.0499		Yes	4.68		Yes	C156			4.57	J	Yes	0.243	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	0.0543		Yes	47.8	J	Yes	0.772		Yes	0.0836		Yes	5.81		Yes	C156			5.15	J	Yes	0.227	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	0.0309		Yes	18	J	Yes	0.33		Yes	0.0214		Yes	2.35		Yes	C156			2.16		Yes	0.145	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	0.0494		Yes	73.2	J	Yes	0.757		Yes	0.141		Yes	8.88	J	Yes	C156			8.22	J	Yes	0.384	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	0.0225		Yes	30.5	J	Yes	0.321		Yes	0.0613		Yes	3.79		Yes	C156			3.5		Yes	0.169	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.0145		Yes	6.15		Yes	0.112		Yes	0.0078		Yes	0.662		Yes	C156			0.744		Yes	0.00129	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.0137		Yes	10.8	J	Yes	0.164		Yes	0.0184		Yes	1.21		Yes	C156			1.19		Yes	0.00108	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.00757		Yes	3.99		Yes	0.0769		Yes	0.00442		Yes	0.497		Yes	C156			0.499		Yes	0.000785	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.00746		Yes	9.5	J	Yes	0.0921		Yes	0.018		Yes	1.11		Yes	C156			1.13		Yes	0.00143	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.00317	EMPC-J	Yes	3.15		Yes	0.0321		Yes	0.00719		Yes	0.399		Yes	C156			0.383		Yes	0.000969	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	0.0508		Yes	25.8	J	Yes	0.488		Yes	0.0311		Yes	2.89		Yes	C156			2.86	J	Yes	0.135	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	0.0397		Yes	34.5	J	Yes	0.554		Yes	0.0602		Yes	4.16		Yes	C156			3.73	J	Yes	0.146	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	0.0208		Yes	11.9	J	Yes	0.22		Yes	0.014		Yes	1.55		Yes	C156			1.44		Yes	0.0824	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	0.0359		Yes	52.6	J	Yes	0.542		Yes	0.101		Yes	6.37	J	Yes	C156			5.93	J	Yes	0.26	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.0145	EMPC-J	Yes	19.2	J	Yes	0.201		Yes	0.0389		Yes	2.39		Yes	C156			2.21		Yes	0.0992	

BERA Tissue Chemistry Data from Above Dundee Dam

						PCB-160			PCB-161			PCB-162			PCB-163			PCB-164			PCB-165			PCB-166			
						µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	Yes	0.000912	U	No	0.000849	U	No	0.146		Yes	C129			2.52		Yes	0.0168		Yes	C128			1.97
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes	0.00101	U	No	0.000912	U	No	0.42		Yes	C129			4.35	J	Yes	0.00357		Yes	C128			4.93
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes	0.00882		Yes	0.0926		Yes	0.756		Yes	C129			7.06	J	Yes	0.184		Yes	C128			16.8
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	Yes	0.0018	U	No	0.0626		Yes	0.633		Yes	C129			7.1	J	Yes	0.146		Yes	C128			12.4
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes	0.00102	U	No	0.000925	U	No	0.265		Yes	C129			4.41	J	Yes	0.0323		Yes	C128			3.65
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes	0.0749		Yes	0.0612		Yes	0.937		Yes	C129			11	J	Yes	0.132		Yes	C128			11.3
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	No	0.000997	U	No	0.000916	U	No	0.0773		Yes	C129			1.22		Yes	0.0125		Yes	C128			0.931
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes	0.0402		Yes	0.0329		Yes	0.536		Yes	C129			6.44	J	Yes	0.0763		Yes	C128			6.47
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	Yes	0.00013	U	No	0.000121	U	No	0.0258		Yes	C129			0.247		Yes	0.00364		Yes	C128			0.297
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	Yes	0.00053	U	No	0.00755		Yes	0.127		Yes	C129			2.03		Yes	0.0289		Yes	C128			1.54
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes	0.00485	U	No	0.00434	U	No	0.482		Yes	C129			5.77	J	Yes	0.0998		Yes	C128			5.26
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes	0.00367	U	No	0.00328	U	No	0.404		Yes	C129			5	J	Yes	0.128		Yes	C128			4.7
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes	0.00277	U	No	0.0268		Yes	0.453		Yes	C129			5.01	J	Yes	0.109		Yes	C128			5.01
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	Yes	0.000669	U	No	0.000594	U	No	0.0126		Yes	C129			0.22		Yes	0.00338		Yes	C128			0.144
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	Yes	0.000469	U	No	0.00042	U	No	0.0164		Yes	C129			0.267		Yes	0.00516		Yes	C128			0.181
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	Yes	0.000199	U	No	0.000178	U	No	0.00914		Yes	C129			0.152		Yes	0.00302		Yes	C128			0.109
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes	0.00162	U	No	0.00145	U	No	0.301		Yes	C129			3.63	J	Yes	0.0626		Yes	C128			3.29
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes	0.00118	U	No	0.00105	U	No	0.245		Yes	C129			3.05	J	Yes	0.0775		Yes	C128			2.84
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes	0.000843	U	No	0.0155		Yes	0.266		Yes	C129			2.96	J	Yes	0.0643		Yes	C128			2.94
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	Yes	0.000417	U	No	0.00917		Yes	0.192		Yes	C129			2.3		Yes	0.0327		Yes	C128			1.92
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes	0.000521	U	No	0.0209		Yes	0.302		Yes	C129			3.47		Yes	0.0596		Yes	C128			3.05
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes	0.0237		Yes	0.000685	U	No	0.202		Yes	C129			3.56		Yes	0.0272		Yes	C128			2.26
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	Yes	0.000617	U	No	0.000568	U	No	0.139		Yes	C129			1.88		Yes	0.0244		Yes	C128			1.44
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	Yes	0.00139	U	No	0.0178		Yes	0.366		Yes	C129			4.71	J	Yes	0.0562		Yes	C128			3.76
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes	0.000934	U	No	0.0156		Yes	0.332		Yes	C129			3.93	J	Yes	0.043		Yes	C128			2.95
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	Yes	0.00113	U	No	0.00105	U	No	0.252		Yes	C129			2.92		Yes	0.0423		Yes	C128			2.41
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	Yes	0.00107	U	No	0.00758		Yes	0.173		Yes	C129			1.62		Yes	0.0242		Yes	C128			1.64
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	No	0.000476	U	No	0.000442	U	No	0.0158		Yes	C129			0.278		Yes	0.00362		Yes	C128			0.162
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	No	0.000312	U	No	0.00029	U	No	0.0121		Yes	C129			0.192		Yes	0.00324		Yes	C128			0.119
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	No	0.000355	U	No	0.000329	U	No	0.0107		Yes	C129			0.23		Yes	0.00238		Yes	C128			0.117
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	No	0.000426	U	No	0.000395	U	No	0.00592		Yes	C129			0.109		Yes	0.000807	EMPC-J	Yes	C128			0.0603
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	No	0.000414	U	No	0.000384	U	No	0.00885		Yes	C129			0.15		Yes	0.00206		Yes	C128			0.0957
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	No	0.000395	U	No	0.000367	U	No	0.00491		Yes	C129			0.0701		Yes	0.000406	U	No	C128			0.0417
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	No	0.00113	U	No	0.00102	U	No	0.021		Yes	C129			0.285		Yes	0.00368	EMPC-J	Yes	C128			0.218
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	No	0.000928	U	No	0.000838	U	No	0.028		Yes	C129			0.301		Yes	0.00474		Yes	C128			0.272
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	Yes	0.00022	U	No	0.00581		Yes	0.126		Yes	C129			1.54		Yes	0.0218		Yes	C128			1.26
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes	0.00022	U	No	0.0128		Yes	0.188		Yes	C129			2.19		Yes	0.0375		Yes	C128			1.9
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes	0.0146		Yes	0.000274	U	No	0.128		Yes	C129			2.27		Yes	0.0176		Yes	C128			1.43
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	Yes	0.000269	U	No	0.000249	U	No	0.0846		Yes	C129			1.16		Yes	0.0148	EMPC-J	Yes	C128			0.876
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	Yes	0.000502	U	No	0.0108		Yes	0.225		Yes	C129			2.9	J	Yes	0.0348		Yes	C128			2.31
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes	0.000359	U	No	0.0094		Yes	0.201		Yes	C129			2.38	J	Yes	0.0258		Yes	C128			1.78
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes	0.000565	U	No	0.000519	U	No	0.155		Yes	C129			1.81		Yes	0.0261	EMPC-J	Yes	C128			1.49
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	Yes	0.000505	U	No	0.00459		Yes	0.113		Yes	C129			1.07		Yes	0.0161		Yes	C128			1.07
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	Yes	0.00164	U	No	0.00162	U	No	0.15		Yes	C129			2.57		Yes	0.0391		Yes	C128			1.7
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes	0.00125	U	No	0.00123	U	No	0.17		Yes	C129			2.25		Yes	0.0497		Yes	C128			2.12
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes	0.000698	U	No	0.000642	U	No	0.0667		Yes	C129			1.2		Yes	0.0212		Yes	C128			0.825
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes	0.00111	U	No	0.00109	U	No	0.302		Yes	C129			3.88		Yes	0.0407		Yes	C128			3.28
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	Yes	0.0011	U	No	0.00109	U	No	0.116		Yes	C129			1.72		Yes	0.0166		Yes	C128			1.41
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	No	0.000997	U	No	0.0009	U	No	0.0218		Yes	C129			0.414		Yes	0.00722		Yes	C128			0.253
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	No	0.000497	U	No	0.000461	U	No	0.0387		Yes	C129			0.68		Yes	0.0131		Yes	C128			0.456
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	No	0.000525	U	No	0.000488	U	No	0.0143		Yes	C129			0.302		Yes	0.00521		Yes	C128			0.177
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	No	0.00102	U	No	0.000937	U	No	0.0345		Yes	C129			0.621		Yes	0.00555		Yes	C128			0.418
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	No	0.000822	U	No	0.000755	U	No	0.0119		Yes	C129			0.223		Yes	0.000839	U	No	C128			0.144
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	Yes	0.000677	U	No	0.000649	U	No	0.0928		Yes	C129			1.61		Yes	0.0249		Yes	C128			1.05
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes	0.00049	U	No	0.000477	U	No	0.123		Yes	C129			1.69		Yes	0.0366		Yes	C128			1.52
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes	0.000312	U	No	0.000288	U	No	0.044		Yes	C129			0.811		Yes	0.0143		Yes	C128			0.544
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes	0.00054	U	No	0.00052	U	No	0.216		Yes	C129			2.83		Yes	0.0293		Yes	C128			2.36
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes	0.000492	U	No	0.000476	U	No	0.0729		Yes	C129			1.1		Yes	0.0099		Yes	C128			0.886

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-167		PCB-168		
					µg/kg		µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003		Yes	C153		
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	J	Yes	C153		
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	J	Yes	C153		
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	J	Yes	C153		
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	J	Yes	C153		
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	J	Yes	C153		
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01		Yes	C153		
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	J	Yes	C153		
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01		Yes	C153		
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01		Yes	C153		
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	J	Yes	C153		
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	J	Yes	C153		
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	J	Yes	C153		
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01		Yes	C153		
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	J	Yes	C153		
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	J	Yes	C153		
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	J	Yes	C153		
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	J	Yes	C153		
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	J	Yes	C153		
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01		Yes	C153		
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02		Yes	C153		
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03		Yes	C153		
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04		Yes	C153		
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05		Yes	C153		
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06		Yes	C153		
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07		Yes	C153		
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08		Yes	C153		
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01		Yes	C153		
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02		Yes	C153		
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03		Yes	C153		
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04		Yes	C153		
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05		Yes	C153		
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06		Yes	C153		
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07		Yes	C153		
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08		Yes	C153		
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01		Yes	C153		
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02		Yes	C153		
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03		Yes	C153		
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04		Yes	C153		
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05		Yes	C153		
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06		Yes	C153		
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07		Yes	C153		
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08		Yes	C153		
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010		Yes	C153		
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032		Yes	C153		
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037		Yes	C153		
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022		Yes	C153		
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028		Yes	C153		
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010		Yes	C153		
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032		Yes	C153		
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037		Yes	C153		
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022		Yes	C153		
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028		Yes	C153		
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010		Yes	C153		
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032		Yes	C153		
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037		Yes	C153		
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022		Yes	C153		
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028		Yes	C153		

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	PCB-169 µg/kg			PCB-170 µg/kg			PCB-171 µg/kg			PCB-172 µg/kg			PCB-173 µg/kg			PCB-174 µg/kg			PCB-175 µg/kg			PCB-176 µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.00793	U	No	9.45	J	Yes	2.8	J	Yes	1.86	J	Yes	C171			6.61	J	Yes	0.423	J	Yes	0.294	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	0.0106	U	No	20.5	J	Yes	5.99	J	Yes	4.5	J	Yes	C171			14.6	J	Yes	0.901	J	Yes	1.14	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	0.0176	U	No	66.9	J	Yes	17.6	J	Yes	13.7	J	Yes	C171			19.9	J	Yes	2.54	J	Yes	0.399	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	0.0143	U	No	54.8	J	Yes	14	J	Yes	9.05	J	Yes	C171			17.9	J	Yes	2.05	J	Yes	1.19	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	0.00773	U	No	16.7	J	Yes	5.2	J	Yes	3.41	J	Yes	C171			12.4	J	Yes	0.773	J	Yes	0.56	
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	0.0142	U	No	49.4	J	Yes	13.7	J	Yes	9.33	J	Yes	C171			33.5	J	Yes	2.2	J	Yes	4.54	J
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.00335	U	No	3.74		Yes	1.12		Yes	0.801		Yes	C171			2.82		Yes	0.168		Yes	0.346	
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	0.00457	U	No	28.1	J	Yes	7.84	J	Yes	5.36	J	Yes	C171			19.2	J	Yes	1.25	J	Yes	2.59	J
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.00199	U	No	1.36	J	Yes	0.449	J	Yes	0.276		Yes	C171			0.628		Yes	0.0656	J	Yes	0.0497	
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	0.00426	U	No	7.77	J	Yes	2.25	J	Yes	1.44		Yes	C171			7.01	J	Yes	0.322	J	Yes	0.862	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	0.0249	U	No	24.3	J	Yes	7.45	J	Yes	4.69	J	Yes	C171			19.2	J	Yes	1.17	J	Yes	2.56	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	0.0173	U	No	19	J	Yes	7.25		Yes	4.76	J	Yes	C171			18.1	J	Yes	1.18		Yes	2.07	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	0.0224	U	No	20.5	J	Yes	6.32	J	Yes	4.15	J	Yes	C171			15.7	J	Yes	1.02	J	Yes	2.01	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.00144	U	No	0.603	J	Yes	0.206	J	Yes	0.105	J	Yes	C171			0.568	J	Yes	0.0278	J	Yes	0.0672	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.0148	U	No	0.791	J	Yes	0.282	J	Yes	0.163	J	Yes	C171			0.733	J	Yes	0.0424	J	Yes	0.0898	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.000803	U	No	0.469		Yes	0.165		Yes	0.0966		Yes	C171			0.419		Yes	0.0245		Yes	0.0491	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	0.00792	U	No	15.2	J	Yes	4.65	J	Yes	2.92	J	Yes	C171			12	J	Yes	0.729	J	Yes	1.6	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	0.00814	U	No	11.5	J	Yes	4.39	J	Yes	2.87	J	Yes	C171			11	J	Yes	0.712	J	Yes	1.26	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	0.00664	U	No	12	J	Yes	3.72	J	Yes	2.44	J	Yes	C171			9.25	J	Yes	0.6	J	Yes	1.18	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	0.00479	U	No	8.42	J	Yes	2.73	J	Yes	1.76		Yes	C171			5.9	J	Yes	0.417	J	Yes	0.709	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	0.00509	U	No	15.1	J	Yes	4.67	J	Yes	3.03		Yes	C171			10.1	J	Yes	0.728	J	Yes	1.23	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	0.00655	U	No	16.8	J	Yes	4.76	J	Yes	2.91		Yes	C171			11	J	Yes	0.714	J	Yes	1.23	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	0.00454	U	No	6.47	J	Yes	2.13	J	Yes	1.34		Yes	C171			4.55	J	Yes	0.313	J	Yes	0.537	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	0.0134	U	No	18.4	J	Yes	5.59	J	Yes	3.76		Yes	C171			10.9	J	Yes	0.861	J	Yes	1.11	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	0.00778	U	No	11.1	J	Yes	4.03	J	Yes	2.56		Yes	C171			7.3	J	Yes	0.599	J	Yes	0.747	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	0.00646	U	No	12.9	J	Yes	4.19	J	Yes	2.79		Yes	C171			9.78	J	Yes	0.66	J	Yes	1.03	
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	0.0045	U	No	6.81	J	Yes	2.45	J	Yes	1.57		Yes	C171			4.27	J	Yes	0.361	J	Yes	0.436	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.00108	U	No	0.721		Yes	0.235	J	Yes	0.138	J	Yes	C171			0.529	J	Yes	0.0338	J	Yes	0.0608	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.000716	U	No	0.553		Yes	0.18		Yes	0.108		Yes	C171			0.405		Yes	0.026		Yes	0.045	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.000802	U	No	0.797		Yes	0.257		Yes	0.158		Yes	C171			0.611		Yes	0.0383		Yes	0.0633	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.000798	U	No	0.285		Yes	0.0887		Yes	0.0516		Yes	C171			0.201		Yes	0.0132		Yes	0.0222	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.00102	U	No	0.414		Yes	0.128		Yes	0.0822		Yes	C171			0.267		Yes	0.02		Yes	0.0269	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.000533	U	No	0.157		Yes	0.0523		Yes	0.0309		Yes	C171			0.101		Yes	0.00754		Yes	0.0115	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.00205	U	No	1.06	J	Yes	0.335	J	Yes	0.22	J	Yes	C171			0.761	J	Yes	0.0506	J	Yes	0.0904	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.00174	U	No	1.14	J	Yes	0.372	J	Yes	0.238	J	Yes	C171			0.633	J	Yes	0.0523	J	Yes	0.0774	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	0.0017	U	No	5.53	J	Yes	1.79	J	Yes	1.15	J	Yes	C171			3.89	J	Yes	0.273	J	Yes	0.466	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	0.00169	U	No	9.4	J	Yes	2.91	J	Yes	1.88		Yes	C171			6.3	J	Yes	0.453	J	Yes	0.765	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	0.00217	U	No	10.6	J	Yes	3.02	J	Yes	1.85		Yes	C171			6.99	J	Yes	0.453	J	Yes	0.78	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	0.0015	U	No	3.94	J	Yes	1.3	J	Yes	0.813		Yes	C171			2.77	J	Yes	0.19	J	Yes	0.326	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	0.00425	U	No	11.3	J	Yes	3.43	J	Yes	2.3		Yes	C171			6.69	J	Yes	0.528	J	Yes	0.681	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	0.00243	U	No	6.7	J	Yes	2.43	J	Yes	1.54		Yes	C171			4.41	J	Yes	0.361	J	Yes	0.451	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	0.0023	U	No	7.93	J	Yes	2.57	J	Yes	1.71	J	Yes	C171			5.99	J	Yes	0.404	J	Yes	0.635	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	0.00167	U	No	4.45	J	Yes	1.58	J	Yes	1.01	J	Yes	C171			2.75	J	Yes	0.232	J	Yes	0.286	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	0.0077	U	No	8.4	J	Yes	2.88	J	Yes	1.56		Yes	C171			7.71	J	Yes	0.448	J	Yes	1.08	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	0.0075	U	No	10.7	J	Yes	3.3	J	Yes	2.12		Yes	C171			6.66	J	Yes	0.5	J	Yes	1.03	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	0.0051	U	No	3.71		Yes	1.13		Yes	0.586		Yes	C171			2.94		Yes	0.142		Yes	0.39	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	0.00743	U	No	14.4	J	Yes	4.6	J	Yes	2.75		Yes	C171			11.7	J	Yes	0.705	J	Yes	1.7	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	0.00648	U	No	6	J	Yes	1.93	J	Yes	1.14		Yes	C171			4.66	J	Yes	0.295	J	Yes	0.615	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.00173	U	No	1.17	J	Yes	0.433	J	Yes	0.243	J	Yes	C171			1.09	J	Yes	0.0612	J	Yes	0.151	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.00187	U	No	2.23	J	Yes	0.72	J	Yes	0.469	J	Yes	C171			1.4	J	Yes	0.101	J	Yes	0.219	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.00125	U	No	0.835		Yes	0.269		Yes	0.149		Yes	C171			0.732		Yes	0.0351		Yes	0.0959	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.00199	U	No	1.64	J	Yes	0.562	J	Yes	0.343	J	Yes	C171			1.36	J	Yes	0.0804	J	Yes	0.209	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.00137	U	No	0.584		Yes	0.191		Yes	0.11		Yes	C171			0.441		Yes	0.0278		Yes	0.0655	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	0.00252	U	No	5.18	J	Yes	1.79	J	Yes	0.973	J	Yes	C171			4.76	J	Yes	0.275	J	Yes	0.666	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	0.00274	U	No	7.66	J	Yes	2.37	J	Yes	1.53	J	Yes	C171			4.77	J	Yes	0.357	J	Yes	0.739	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	0.00172	U	No	2.47		Yes	0.757		Yes	0.397		Yes	C171			1.98		Yes	0.0957		Yes	0.263	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	0.00284	U	No	10.3	J	Yes	3.3	J	Yes	1.97	J	Yes	C171			8.36	J	Yes	0.503	J	Yes	1.22	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.00218	U	No	3.76	J	Yes	1.21	J	Yes	0.714		Yes	C171			2.91	J	Yes	0.184	J	Yes	0.388	

BERA Tissue Chemistry Data from Above Dundee Dam

						PCB-177			PCB-178			PCB-179			PCB-180			PCB-181			PCB-182			PCB-183			
						µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	Yes	2.73	J	Yes	2.56		Yes	1.1		Yes	26.5	J	Yes	0.0805	J	Yes	0.0521	J	Yes	6.3	J	Yes	0.077
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes	10.8	J	Yes	5.02	J	Yes	4.47	J	Yes	54.4	J	Yes	0.231	J	Yes	0.225	J	Yes	14.8	J	Yes	0.122
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes	25.6	J	Yes	13.7	J	Yes	2.43		Yes	152	J	Yes	0.586	J	Yes	0.46	J	Yes	39.8	J	Yes	0.317
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	Yes	24.1	J	Yes	12.8	J	Yes	4.03	J	Yes	125	J	Yes	0.446	J	Yes	0.333	J	Yes	35.1	J	Yes	0.313
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes	5	J	Yes	4.54	J	Yes	1.99		Yes	46.7	J	Yes	0.156	J	Yes	0.124	J	Yes	12.4	J	Yes	0.143
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes	26.7	J	Yes	14.2	J	Yes	13.7	J	Yes	129	J	Yes	0.471		Yes	0.439		Yes	29.3	J	Yes	0.461
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	Yes	2.19		Yes	1.12		Yes	1.03		Yes	10.2	J	Yes	0.039		Yes	0.0254		Yes	2.62		Yes	0.0347
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes	15.3	J	Yes	8.1	J	Yes	7.8	J	Yes	73.6	J	Yes	0.27		Yes	0.246		Yes	16.9	J	Yes	0.262
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	Yes	0.624	J	Yes	0.307		Yes	0.203		Yes	3.55	J	Yes	0.0146		Yes	0.00835		Yes	1.05	J	Yes	0.00883
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	Yes	4.66	J	Yes	2.03		Yes	2.79		Yes	19.8	J	Yes	0.0688		Yes	0.0474		Yes	5.46	J	Yes	0.0577
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes	14.4	J	Yes	7.03	J	Yes	8.71	J	Yes	61.9	J	Yes	0.279	J	Yes	0.231	J	Yes	16.2	J	Yes	0.163
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes	14.3	J	Yes	6.28	J	Yes	6.98	J	Yes	62	J	Yes	0.265		Yes	0.21		Yes	17	J	Yes	0.151
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes	12.5	J	Yes	6.44	J	Yes	6.83	J	Yes	54.7	J	Yes	0.236	J	Yes	0.198	J	Yes	13.8	J	Yes	0.151
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	Yes	0.396	J	Yes	0.165		Yes	0.233		Yes	1.37	J	Yes	0.00672	J	Yes	0.00442	J	Yes	0.358	J	Yes	0.00417
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	Yes	0.562	J	Yes	0.25		Yes	0.305		Yes	2.11	J	Yes	0.00953	J	Yes	0.00774	J	Yes	0.545	J	Yes	0.00582
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	Yes	0.326		Yes	0.144		Yes	0.169		Yes	1.21		Yes	0.00584		Yes	0.00403	EMPC-J	Yes	0.348		Yes	0.00318
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes	8.99	J	Yes	4.38	J	Yes	5.44	J	Yes	38.5	J	Yes	0.174	J	Yes	0.144	J	Yes	10.1	J	Yes	0.102
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes	8.65	J	Yes	3.8	J	Yes	4.24	J	Yes	37.4	J	Yes	0.16	J	Yes	0.127	J	Yes	10.2	J	Yes	0.0913
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes	7.36	J	Yes	3.78	J	Yes	4.02	J	Yes	32.1	J	Yes	0.139	J	Yes	0.116	EMPC-J	Yes	8.12	J	Yes	0.0886
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	Yes	3.38	J	Yes	2.65		Yes	3.02		Yes	22.9	J	Yes	0.0992		Yes	0.0786		Yes	0.00219	U	No	0.109
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes	6.18	J	Yes	4.43	J	Yes	5.14	J	Yes	39.5	J	Yes	0.168		Yes	0.114		Yes	11.2	J	Yes	0.141
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes	5.23	J	Yes	4.02	J	Yes	5.08	J	Yes	39.7	J	Yes	0.113		Yes	0.0794		Yes	11.6	J	Yes	0.109
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	Yes	2.55	J	Yes	1.98		Yes	2.37		Yes	17.8	J	Yes	0.0746		Yes	0.0517		Yes	4.94	J	Yes	0.077
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	Yes	6.19	J	Yes	5.01	J	Yes	4.51	J	Yes	47.3	J	Yes	0.202		Yes	0.138		Yes	13.7	J	Yes	0.183
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes	3.52	J	Yes	3.24		Yes	3.57		Yes	31.9	J	Yes	0.172		Yes	0.136		Yes	9.85	J	Yes	0.0766
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	Yes	6.1	J	Yes	3.42		Yes	3.94	J	Yes	32.3	J	Yes	0.135		Yes	0.0857		Yes	9.62	J	Yes	0.127
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	Yes	2.63	J	Yes	1.92		Yes	1.93		Yes	17.8	J	Yes	0.0957		Yes	0.0683		Yes	5.56	J	Yes	0.0546
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	Yes	0.289	J	Yes	0.211		Yes	0.254		Yes	1.74	J	Yes	0.00793	J	Yes	0.00664	J	Yes	0.512	J	Yes	0.0079
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	Yes	0.235		Yes	0.152		Yes	0.191		Yes	1.34		Yes	0.00613		Yes	0.00457		Yes	0.368		Yes	0.0044
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	Yes	0.268		Yes	0.19		Yes	0.26		Yes	2.02		Yes	0.00649		Yes	0.00472		Yes	0.541		Yes	0.00549
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	Yes	0.105		Yes	0.0777		Yes	0.0987		Yes	0.676		Yes	0.00335		Yes	0.00256		Yes	0.192		Yes	0.00286
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	Yes	0.149		Yes	0.104		Yes	0.11		Yes	1.04		Yes	0.00493		Yes	0.00433		Yes	0.307		Yes	0.004
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	Yes	0.0507		Yes	0.0441		Yes	0.0551		Yes	0.395		Yes	0.0022		Yes	0.00144	EMPC-J	Yes	0.128		Yes	0.000425
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	Yes	0.497	J	Yes	0.315		Yes	0.36		Yes	2.81	J	Yes	0.0116	J	Yes	0.00861	J	Yes	0.783	J	Yes	0.012
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	Yes	0.395	J	Yes	0.34		Yes	0.34		Yes	3	J	Yes	0.0151	J	Yes	0.0114	J	Yes	0.822	J	Yes	0.0102
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	Yes	2.22	J	Yes	1.74		Yes	1.98		Yes	15	J	Yes	0.065	J	Yes	0.0516	J	Yes	0.193	J	Yes	0.0711
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes	3.85	J	Yes	2.75	J	Yes	3.2	J	Yes	24.5	J	Yes	0.105		Yes	0.0711		Yes	6.95	J	Yes	0.0875
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes	3.31	J	Yes	2.54	J	Yes	3.22	J	Yes	25.2	J	Yes	0.0719		Yes	0.0506		Yes	7.33	J	Yes	0.069
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	Yes	1.55	J	Yes	1.2		Yes	1.44		Yes	10.8	J	Yes	0.0455		Yes	0.0316		Yes	3	J	Yes	0.0467
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	Yes	3.8	J	Yes	3.07	J	Yes	2.77	J	Yes	29	J	Yes	0.124		Yes	0.0851		Yes	8.4	J	Yes	0.112
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes	2.13	J	Yes	1.96		Yes	2.16		Yes	19.2	J	Yes	0.104		Yes	0.0819	EMPC-J	Yes	5.94	J	Yes	0.0459
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes	3.75	J	Yes	2.12		Yes	2.44	J	Yes	19.9	J	Yes	0.0832	J	Yes	0.0533	J	Yes	5.91	J	Yes	0.0787
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR09-MAWB-Comp08	Yes	1.7	J	Yes	1.26		Yes	1.27		Yes	11.6	J	Yes	0.0621	J	Yes	0.0446	J	Yes	3.58	J	Yes	0.0361
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	Yes	5.57	J	Yes	2.43		Yes	3.8		Yes	20.7	J	Yes	0.0944		Yes	0.0938		Yes	6.5	J	Yes	0.0527
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes	6.7	J	Yes	2.68		Yes	3.2		Yes	28.1	J	Yes	0.116		Yes	0.105		Yes	6.9	J	Yes	0.111
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes	2.39		Yes	0.848		Yes	1.35		Yes	8.43	J	Yes	0.0338		Yes	0.0305		Yes	2.09		Yes	0.0216
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes	10.6	J	Yes	4.08	J	Yes	5.04	J	Yes	36.8	J	Yes	0.163		Yes	0.125		Yes	9.55	J	Yes	0.181
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	Yes	4.29	J	Yes	1.65		Yes	1.97		Yes	15.5	J	Yes	0.0656		Yes	0.0578		Yes	3.9	J	Yes	0.096
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	Yes	0.785	J	Yes	0.328		Yes	0.515		Yes	2.91	J	Yes	0.0141	J	Yes	0.0106	J	Yes	0.865	J	Yes	0.00658
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	Yes	1.38	J	Yes	0.55		Yes	0.66		Yes	5.88	J	Yes	0.0251	J	Yes	0.019	J	Yes	1.52	J	Yes	0.0221
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	Yes	0.579		Yes	0.199		Yes	0.298		Yes	1.81		Yes	0.00852		Yes	0.00744		Yes	0.506		Yes	0.00557
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	Yes	1.22	J	Yes	0.499		Yes	0.621		Yes	4.3	J	Yes	0.0193	J	Yes	0.011	J	Yes	1.26	J	Yes	0.0209
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	Yes	0.41		Yes	0.157		Yes	0.198		Yes	1.41		Yes	0.00719		Yes	0.00127	U	No	0.4		Yes	0.00857
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	Yes	3.44	J	Yes	1.49		Yes	2.33		Yes	12.8	J	Yes	0.0586	J	Yes	0.0567	J	Yes	3.99	J	Yes	0.0321
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes	4.79	J	Yes	1.92		Yes	2.29		Yes	20.1	J	Yes	0.0834	J	Yes	0.0741	J	Yes	4.97	J	Yes	0.0791
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes	1.61		Yes	0.567		Yes	0.894		Yes	5.56	J	Yes	0.0229		Yes	0.0205		Yes	1.4		Yes	0.0147
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes	7.57	J	Yes	2.92	J	Yes	3.61	J	Yes	26.3	J	Yes	0.117	J	Yes	0.0882	J	Yes	6.87	J	Yes	0.129
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes	2.68	J	Yes	1.03		Yes	1.24		Yes	9.67	J	Yes	0.0414		Yes	0.0341		Yes	2.45	J	Yes	0.0598

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-184		PCB-185			PCB-186			PCB-187			PCB-188			PCB-189			PCB-190			PCB-191		
					µg/kg		µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003		Yes	1.07	J	Yes	0.000802	U	No	22.4	J	Yes	0.0184		Yes	0.341		Yes	2.35	J	Yes	0.432	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004		Yes	1.81	J	Yes	0.00101	U	No	40.4	J	Yes	0.0602		Yes	0.886	J	Yes	4.45	J	Yes	0.891	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001		Yes	2.99	J	Yes	0.00102	U	No	112	J	Yes	0.131		Yes	2.81		Yes	15.2	J	Yes	2.97	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002		Yes	0.412	J	Yes	0.00181	U	No	99	J	Yes	0.108		Yes	2.05	J	Yes	12	J	Yes	2.2	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003		Yes	1.68	J	Yes	0.000886	U	No	39.6	J	Yes	0.0332		Yes	0.676	J	Yes	4.21	J	Yes	0.796	J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01		Yes	6.82	J	Yes	0.000811	U	No	99.7	J	Yes	0.145		Yes	2.16	J	Yes	12.3	J	Yes	2.13	J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01		Yes	0.287		Yes	0.00135	U	No	7.88	J	Yes	0.0103		Yes	0.178		Yes	0.915		Yes	0.171		Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01		Yes	3.78	J	Yes	0.000531	U	No	56.9	J	Yes	0.0822		Yes	1.24	J	Yes	6.99	J	Yes	1.22	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01		Yes	0.000619	U	No	0.000147	U	No	3.04	J	Yes	0.00362		Yes	0.0498	J	Yes	0.273	J	Yes	0.0565	J	Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01		Yes	0.00243	U	No	0.000313	U	No	12.6	J	Yes	0.0285		Yes	0.271	J	Yes	1.53	J	Yes	0.307	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01		Yes	3.27	J	Yes	0.00405	U	No	43.2	J	Yes	0.117		Yes	0.864	J	Yes	5.22	J	Yes	0.963	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02		Yes	2.15		Yes	0.00242	U	No	44	J	Yes	0.117		Yes	0.836		Yes	4.15	J	Yes	0.996		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03		Yes	3.02	J	Yes	0.00295	U	No	39.4	J	Yes	0.109		Yes	0.749	J	Yes	4.44	J	Yes	0.864	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01		Yes	0.0953	J	Yes	0.000408	U	No	1.06	J	Yes	0.00268		Yes	0.0191		Yes	0.127	J	Yes	0.0239	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02		Yes	0.147	J	Yes	0.00036	U	No	1.6	J	Yes	0.00439		Yes	0.0262	J	Yes	0.169	J	Yes	0.0349	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03		Yes	0.0486		Yes	0.000175	U	No	0.945		Yes	0.00256		Yes	0.0161		Yes	0.0993		Yes	0.019		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01		Yes	2.04	J	Yes	0.00132	U	No	26.9	J	Yes	0.0729		Yes	0.538	J	Yes	3.25	J	Yes	0.601	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02		Yes	1.33	J	Yes	0.000787	U	No	26.6	J	Yes	0.0707		Yes	0.503	J	Yes	2.51	J	Yes	0.601	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03		Yes	1.77	J	Yes	0.000889	U	No	23.2	J	Yes	0.0641		Yes	0.44	J	Yes	2.61	J	Yes	0.507	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01		Yes	8.51	J	Yes	0.000349	U	No	21.3	J	Yes	0.0346		Yes	0.306		Yes	1.9	J	Yes	0.342	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02		Yes	1.65	J	Yes	0.0021		Yes	32.1	J	Yes	0.0608		Yes	0.563	J	Yes	3.39	J	Yes	0.614	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03		Yes	0.00455	U	No	0.000709	U	No	30.3	J	Yes	0.0297		Yes	0.548	J	Yes	3.8	J	Yes	0.631	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04		Yes	0.796	J	Yes	0.000525	U	No	16.1	J	Yes	0.0236		Yes	0.257	J	Yes	1.53	J	Yes	0.263	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05		Yes	1.76	J	Yes	0.00143	U	No	41.4	J	Yes	0.0588		Yes	0.736	J	Yes	4.34	J	Yes	0.776	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06		Yes	1.43	J	Yes	0.00129	U	No	28.2	J	Yes	0.0465		Yes	0.473	J	Yes	2.58	J	Yes	0.508	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07		Yes	1.77	J	Yes	0.00113	U	No	29.1	J	Yes	0.0386		Yes	0.535	J	Yes	2.94	J	Yes	0.538	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08		Yes	0.861	J	Yes	0.00109	U	No	17.3	J	Yes	0.0251		Yes	0.296	J	Yes	1.55	J	Yes	0.282	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01		Yes	0.0741	J	Yes	0.000583	U	No	1.64	J	Yes	0.00292		Yes	0.028	J	Yes	0.166		Yes	0.0283	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02		Yes	0.085		Yes	0.000369	U	No	1.13		Yes	0.00222		Yes	0.0214	J	Yes	0.122		Yes	0.0215		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03		Yes	0.092		Yes	0.000413	U	No	1.57		Yes	0.00174		Yes	0.0322	J	Yes	0.173		Yes	0.0327		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04		Yes	0.0325		Yes	0.000443	U	No	0.633		Yes	0.000887	J	Yes	0.00986	J	Yes	0.0667		Yes	0.0111		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05		Yes	0.0273		Yes	0.000417	U	No	0.907		Yes	0.00155		Yes	0.0188	J	Yes	0.097		Yes	0.0164		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	U	No	0.0138		Yes	0.000394	U	No	0.363		Yes	0.000409	U	No	0.00662	J	Yes	0.0355		Yes	0.00603		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07		Yes	0.074	J	Yes	0.00134	U	No	2.19	J	Yes	0.00385		Yes	0.0425		Yes	0.254	J	Yes	0.0471	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08		Yes	0.103	J	Yes	0.000929	U	No	2.51	J	Yes	0.00484		Yes	0.0472		Yes	0.269	J	Yes	0.0469	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01		Yes	5.35	J	Yes	0.000218	U	No	13.9	J	Yes	0.0227		Yes	0.202	J	Yes	1.25	J	Yes	0.224	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02		Yes	1.04	J	Yes	0.00135		Yes	20	J	Yes	0.0378		Yes	0.351	J	Yes	2.11	J	Yes	0.382	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03		Yes	0.0369		Yes	0.000297	U	No	19.2	J	Yes	0.0189		Yes	0.349	J	Yes	2.4	J	Yes	0.4	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04		Yes	0.484	J	Yes	0.000246	U	No	9.77	J	Yes	0.0143	J	Yes	0.156	J	Yes	0.932	J	Yes	0.16	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05		Yes	1.07	J	Yes	0.000514	U	No	25.4	J	Yes	0.0361		Yes	0.452	J	Yes	2.66	J	Yes	0.475	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06		Yes	0.861	J	Yes	0.000465	U	No	17	J	Yes	0.0279		Yes	0.286	J	Yes	1.56	J	Yes	0.306	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07		Yes	1.06	J	Yes	0.000609	U	No	17.8	J	Yes	0.024		Yes	0.328	J	Yes	1.81	J	Yes	0.332	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08		Yes	0.545	J	Yes	0.000511	U	No	11.1	J	Yes	0.0167		Yes	0.192	J	Yes	1.02	J	Yes	0.184	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010		Yes	0.00645	U	No	0.00139	U	No	15.7	J	Yes	0.0393		Yes	0.26	J	Yes	1.76	J	Yes	0.332	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032		Yes	1.37	J	Yes	0.00104	U	No	21.4	J	Yes	0.0484		Yes	0.391	J	Yes	2.5	J	Yes	0.429	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037		Yes	0.364		Yes	0.000697	U	No	5.71	J	Yes	0.0152		Yes	0.12		Yes	0.764		Yes	0.128		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022		Yes	2.17	J	Yes	0.000803	U	No	31.1	J	Yes	0.0359		Yes	0.53	J	Yes	3.62	J	Yes	0.573	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028		Yes	0.777	J	Yes	0.00117	U	No	11.9	J	Yes	0.0167		Yes	0.218	J	Yes	1.49	J	Yes	0.255	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010		Yes	0.102	J	Yes	0.00122	U	No	2.12	J	Yes	0.00589		Yes	0.0464		Yes	0.248	J	Yes	0.0498	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032		Yes	0.241	J	Yes	0.000617	U	No	4.23	J	Yes	0.0106		Yes	0.0889	J	Yes	0.503	J	Yes	0.0997	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037		Yes	0.0801		Yes	0.000637	U	No	1.34		Yes	0.0041		Yes	0.0276	J	Yes	0.173		Yes	0.032		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022		Yes	0.157	J	Yes	0.00109	U	No	3.5	J	Yes	0.00457		Yes	0.0699		Yes	0.416	J	Yes	0.0707	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028		Yes	0.0621		Yes	0.000792	U	No	1.06		Yes	0.000785	U	No	0.0224		Yes	0.145		Yes	0.025		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010		Yes	0.0473	J	Yes	0.000657	U	No	9.64	J	Yes	0.0244		Yes	0.165	J	Yes	1.09	J	Yes	0.206	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032		Yes	0.965	J	Yes	0.000444	U	No	15.2	J	Yes	0.0348		Yes	0.283	J	Yes	1.78	J	Yes	0.311	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037		Yes	0.241		Yes	0.000336	U	No	3.82	J	Yes	0.0104		Yes	0.08	J	Yes	0.508		Yes	0.0864		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022		Yes	1.52	J	Yes	0.000448	U	No	22.2	J	Yes	0.0258		Yes	0.381	J	Yes	2.59	J	Yes	0.411	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028		Yes	0.481	J	Yes	0.000507	U	No	7.41	J	Yes	0.00995		Yes	0.137	J	Yes	0.933	J	Yes	0.16	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	PCB-192 µg/kg			PCB-193 µg/kg			PCB-194 µg/kg			PCB-195 µg/kg			PCB-196 µg/kg			PCB-197 µg/kg			PCB-198 µg/kg			PCB-199 µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.00261	U	No	C180			4.58	J	Yes	3.31		Yes	2.27		Yes	0.187		Yes	7.3		Yes	C198	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	0.0037	U	No	C180			12.2	J	Yes	10.1	J	Yes	5.23	J	Yes	0.45		Yes	18.1	J	Yes	C198	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	0.00585	U	No	C180			37.6	J	Yes	33.7	J	Yes	11.8	J	Yes	1.66		Yes	48.4	J	Yes	C198	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	0.00749	U	No	C180			24.2	J	Yes	24.5	J	Yes	9.12	J	Yes	1.38		Yes	38.3	J	Yes	C198	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	0.00343	U	No	C180			8.55	J	Yes	7.4	J	Yes	3.71	J	Yes	0.353		Yes	13.1	J	Yes	C198	
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	0.00758	U	No	C180			28.4	J	Yes	24.7	J	Yes	13	J	Yes	0.98		Yes	39.8	J	Yes	C198	
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.00223	U	No	C180			1.95		Yes	0.928		Yes	0.869		Yes	0.0557		Yes	2.83		Yes	C198	
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	0.00254	U	No	C180			16.1	J	Yes	13.6	J	Yes	7.35	J	Yes	0.549		Yes	22.6	J	Yes	C198	
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.00049	U	No	C180			0.774		Yes	0.585		Yes	0.211		Yes	0.0278		Yes	0.708		Yes	C198	
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	0.00205	U	No	C180			4.38	J	Yes	3.36		Yes	1.99		Yes	0.11		Yes	6.23		Yes	C198	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	0.0126	U	No	C180			11.6	J	Yes	8.69	J	Yes	6.33	J	Yes	0.353		Yes	20	J	Yes	C198	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	0.00967	U	No	C180			11.6	J	Yes	9.17	J	Yes	5.84	J	Yes	0.424		Yes	20	J	Yes	C198	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	0.0109	U	No	C180			9.62	J	Yes	8.83	J	Yes	5.11	J	Yes	0.37		Yes	18.6	J	Yes	C198	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.000873	U	No	C180			0.213		Yes	0.13		Yes	0.123		Yes	0.00787		Yes	0.402		Yes	C198	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.00085	U	No	C180			0.392		Yes	0.264		Yes	0.216		Yes	0.0138		Yes	0.719		Yes	C198	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.000477	U	No	C180			0.219		Yes	0.197		Yes	0.104		Yes	0.00735		Yes	0.386		Yes	C198	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	0.00404	U	No	C180			7.2	J	Yes	5.39	J	Yes	3.93	J	Yes	0.22		Yes	12.4	J	Yes	C198	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	0.00302	U	No	C180			6.99	J	Yes	5.51	J	Yes	3.53	J	Yes	0.255		Yes	12.1	J	Yes	C198	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	0.00325	U	No	C180			5.65	J	Yes	5.19	J	Yes	3	J	Yes	0.217		Yes	10.9	J	Yes	C198	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	0.00212	U	No	C180			4.58	J	Yes	3.72		Yes	2.1		Yes	0.225		Yes	6.76		Yes	C198	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	0.00316	U	No	C180			8.15	J	Yes	6.48	J	Yes	3.81		Yes	0.346		Yes	12.2	J	Yes	C198	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	0.00361	U	No	C180			7.79	J	Yes	6.26	J	Yes	3.77	J	Yes	0.372		Yes	9.99	J	Yes	C198	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	0.00181	U	No	C180			3.56		Yes	3		Yes	1.61		Yes	0.17		Yes	5.37		Yes	C198	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	0.00446	U	No	C180			10.6	J	Yes	7.79	J	Yes	3.89	J	Yes	0.42		Yes	12.4	J	Yes	C198	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	0.00405	U	No	C180			6.32	J	Yes	4.97	J	Yes	2.55		Yes	0.345		Yes	7.68		Yes	C198	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	0.0033	U	No	C180			8.11	J	Yes	6.21	J	Yes	2.75		Yes	0.235		Yes	9.7	J	Yes	C198	
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	0.0028	U	No	C180			4.38	J	Yes	3.42		Yes	1.59		Yes	0.181		Yes	5.14		Yes	C198	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.000787	U	No	C180			0.342		Yes	0.213		Yes	0.176		Yes	0.0136		Yes	0.53		Yes	C198	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.000704	U	No	C180			0.239		Yes	0.136		Yes	0.13		Yes	0.00998		Yes	0.383		Yes	C198	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.000702	U	No	C180			0.401		Yes	0.198		Yes	0.197		Yes	0.0145		Yes	0.456		Yes	C198	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.000646	U	No	C180			0.127		Yes	0.0613		Yes	0.069		Yes	0.00535		Yes	0.2		Yes	C198	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.000817	U	No	C180			0.205		Yes	0.0916		Yes	0.104		Yes	0.00952		Yes	0.287		Yes	C198	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.000544	U	No	C180			0.0691		Yes	0.0324		Yes	0.0403		Yes	0.00364		Yes	0.102		Yes	C198	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.00152	U	No	C180			0.512		Yes	0.321		Yes	0.299		Yes	0.0221		Yes	0.869		Yes	C198	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.0012	U	No	C180			0.606		Yes	0.402		Yes	0.342		Yes	0.0333		Yes	0.964		Yes	C198	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	0.00081	U	No	C180			2.99	J	Yes	2.4		Yes	1.38		Yes	0.146		Yes	4.42		Yes	C198	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	0.0011	U	No	C180			5.05	J	Yes	3.99	J	Yes	2.37		Yes	0.214		Yes	7.57	J	Yes	C198	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	0.00124	U	No	C180			4.94	J	Yes	3.92	J	Yes	2.39	J	Yes	0.234		Yes	6.31	J	Yes	C198	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	0.000667	U	No	C180			2.16		Yes	1.8		Yes	0.98		Yes	0.103		Yes	3.26		Yes	C198	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	0.00151	U	No	C180			6.48	J	Yes	4.74	J	Yes	2.39	J	Yes	0.257		Yes	7.6	J	Yes	C198	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	0.00132	U	No	C180			3.81	J	Yes	2.99	J	Yes	1.54		Yes	0.208		Yes	4.63		Yes	C198	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	0.00128	U	No	C180			4.92	J	Yes	3.74	J	Yes	1.72		Yes	0.146		Yes	5.99	J	Yes	C198	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	0.00107	U	No	C180			2.81	J	Yes	2.16		Yes	1.07		Yes	0.119		Yes	3.4		Yes	C198	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	0.00508	U	No	C180			3.98	J	Yes	3.95	J	Yes	2.52		Yes	0.189		Yes	7.27		Yes	C198	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	0.0037	U	No	C180			6.44	J	Yes	5.62	J	Yes	3.16		Yes	0.198		Yes	9.74	J	Yes	C198	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	0.00181	U	No	C180			1.62		Yes	0.917		Yes	0.714		Yes	0.0403		Yes	2.18		Yes	C198	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	0.0052	U	No	C180			6.75	J	Yes	6.29	J	Yes	3.56		Yes	0.237		Yes	10.7	J	Yes	C198	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	0.00444	U	No	C180			3.07		Yes	3.13		Yes	1.58		Yes	0.0943		Yes	4.58		Yes	C198	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.00138	U	No	C180			0.535		Yes	0.369		Yes	0.299		Yes	0.0244		Yes	0.937		Yes	C198	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.00087	U	No	C180			1.21		Yes	0.832		Yes	0.49		Yes	0.0454		Yes	1.62		Yes	C198	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.000956	U	No	C180			0.349		Yes	0.23		Yes	0.169		Yes	0.0101		Yes	0.502		Yes	C198	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.00159	U	No	C180			0.773		Yes	0.48		Yes	0.365		Yes	0.0277		Yes	1.19		Yes	C198	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.00115	U	No	C180			0.248		Yes	0.153		Yes	0.125		Yes	0.00905	EMPC-J	Yes	0.386		Yes	C198	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	0.00171	U	No	C180			2.44	J	Yes	2.35	J	Yes	1.53		Yes	0.116		Yes	4.45		Yes	C198	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	0.00134	U	No	C180			4.56	J	Yes	3.9	J	Yes	2.2		Yes	0.143		Yes	6.82	J	Yes	C198	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	0.00072	U	No	C180			1.07		Yes	0.62		Yes	0.478		Yes	0.0272		Yes	1.45		Yes	C198	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	0.00202	U	No	C180			4.82	J	Yes	4.41	J	Yes	2.53		Yes	0.169		Yes	7.63	J	Yes	C198	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.00154	U	No	C180			1.9		Yes	1.9		Yes	0.978		Yes	0.059	EMPC-J	Yes	2.84		Yes	C198	

BERA Tissue Chemistry Data from Above Dundee Dam

						PCB-200			PCB-201			PCB-202			PCB-203			PCB-204			PCB-205			PCB-206			
						µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003		0.166		Yes	0.642		Yes	1.38	J	Yes	4.73	J	Yes	0.00448		Yes	0.265		Yes	2.43	J	Yes	0.213
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004		1.05		Yes	1.67		Yes	3.14	J	Yes	10.2	J	Yes	0.0188	EMPC-J	Yes	0.634		Yes	6.8	J	Yes	0.788
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001		0.462		Yes	4.24	J	Yes	7.81	J	Yes	24.4	J	Yes	0.0438		Yes	2.06		Yes	19	J	Yes	2.03
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002		0.591		Yes	3.66	J	Yes	6.88	J	Yes	20.6	J	Yes	0.034		Yes	1.45		Yes	12.5	J	Yes	1.31
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003		0.328		Yes	1.21		Yes	2.46	J	Yes	8.11	J	Yes	0.00793		Yes	0.54		Yes	4.2	J	Yes	0.371
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01		1.87		Yes	3.87		Yes	8.18	J	Yes	26.6	J	Yes	0.0352		Yes	1.58		Yes	12.5	J	Yes	1.34
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01		0.143		Yes	0.264		Yes	0.611		Yes	1.68		Yes	0.00255		Yes	0.112		Yes	1.08	J	Yes	0.106
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01		1.07		Yes	2.19		Yes	4.65	J	Yes	15	J	Yes	0.02		Yes	0.896		Yes	7.18	J	Yes	0.765
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01		0.012		Yes	0.0852		Yes	0.198	J	Yes	0.388		Yes	0.000776	J	Yes	0.0434		Yes	0.561	J	Yes	0.0481
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01		0.525		Yes	0.593		Yes	1.54		Yes	3.67		Yes	0.0062		Yes	0.21		Yes	3.25	J	Yes	0.297
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01		1.4		Yes	1.93		Yes	5.15	J	Yes	12	J	Yes	0.0173		Yes	0.642		Yes	9.14	J	Yes	0.822
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02		1.11		Yes	1.86		Yes	5.41	J	Yes	11.6	J	Yes	0.0216		Yes	0.656		Yes	11	J	Yes	0.858
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03		1.01		Yes	1.74		Yes	5.27	J	Yes	10.5	J	Yes	0.0231		Yes	0.569		Yes	9.84	J	Yes	0.832
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01		0.029		Yes	0.0396		Yes	0.0982	J	Yes	0.225		Yes	0.000443	U	No	0.0118		Yes	0.162	J	Yes	0.0162
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02		0.0431		Yes	0.0677		Yes	0.2	J	Yes	0.395		Yes	0.000632	J	Yes	0.0206		Yes	0.383	J	Yes	0.0333
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03		0.024		Yes	0.0394		Yes	0.117	J	Yes	0.201		Yes	0.000401	EMPC-J	Yes	0.0126		Yes	0.232	J	Yes	0.0195
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01		0.871		Yes	1.2		Yes	3.2	J	Yes	7.45	J	Yes	0.0107		Yes	0.399		Yes	5.67	J	Yes	0.511
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02		0.672		Yes	1.12		Yes	3.27	J	Yes	6.99	J	Yes	0.013	J	Yes	0.395		Yes	6.64	J	Yes	0.519
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03		0.594		Yes	1.02		Yes	3.1	J	Yes	6.15	J	Yes	0.0135	EMPC-J	Yes	0.334		Yes	5.79	J	Yes	0.489
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01		0.181		Yes	0.681		Yes	1.89		Yes	4.48	J	Yes	0.0084		Yes	0.226		Yes	3.43	J	Yes	0.37
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02		0.421		Yes	1.21		Yes	3.48		Yes	8.12	J	Yes	0.0138		Yes	0.409		Yes	5.99	J	Yes	0.642
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03		0.254		Yes	1.03		Yes	2.05	J	Yes	6.23	J	Yes	0.008		Yes	0.387		Yes	3.14	J	Yes	0.311
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04		0.146		Yes	0.51		Yes	1.46		Yes	3.63		Yes	0.00584	EMPC-J	Yes	0.176		Yes	2.64	J	Yes	0.25
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05		0.313		Yes	1.23		Yes	3.4		Yes	7.04	J	Yes	0.0156		Yes	0.552		Yes	6.41	J	Yes	0.73
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06		0.159		Yes	0.826		Yes	2.11		Yes	4.95	J	Yes	0.0137		Yes	0.294		Yes	3.69	J	Yes	0.639
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07		0.44		Yes	1.01		Yes	2.45		Yes	4.96	J	Yes	0.0105		Yes	0.397		Yes	4.57	J	Yes	0.538
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08		0.129		Yes	0.525		Yes	1.28		Yes	2.92		Yes	0.00681	EMPC-J	Yes	0.213		Yes	3.1	J	Yes	0.385
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01		0.0174		Yes	0.0537		Yes	0.151		Yes	0.324		Yes	0.000372	U	No	0.0183		Yes	0.31	J	Yes	0.0344
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02		0.0136		Yes	0.038		Yes	0.113		Yes	0.241		Yes	0.000653	J	Yes	0.0135		Yes	0.226	J	Yes	0.0258
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03		0.0134		Yes	0.0486		Yes	0.1		Yes	0.301		Yes	0.000379	U	No	0.0209		Yes	0.155	J	Yes	0.0203
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04		0.00586		Yes	0.0189		Yes	0.0552		Yes	0.138		Yes	0.000357	U	No	0.00735		Yes	0.104	J	Yes	0.011
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05		0.00583		Yes	0.0276		Yes	0.0758		Yes	0.196		Yes	0.000517	U	No	0.0115		Yes	0.152	J	Yes	0.018
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06		0.0029	EMPC-J	Yes	0.011		Yes	0.03		Yes	0.0761		Yes	0.000349	U	No	0.00353		Yes	0.05	J	Yes	0.00842
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07		0.0378		Yes	0.0872		Yes	0.207		Yes	0.533		Yes	0.00119	U	No	0.0315		Yes	0.422	J	Yes	0.0483
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08		0.0202		Yes	0.0964		Yes	0.227		Yes	0.632		Yes	0.00109	U	No	0.0356		Yes	0.524	J	Yes	0.0729
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01		0.12		Yes	0.446		Yes	1.24		Yes	2.92	J	Yes	0.00532		Yes	0.148		Yes	2.26	J	Yes	0.244
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02		0.261		Yes	0.751		Yes	2.16		Yes	5.03	J	Yes	0.00865	J	Yes	0.254		Yes	3.73	J	Yes	0.4
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03		0.161		Yes	0.651		Yes	1.3	J	Yes	3.94	J	Yes	0.00499		Yes	0.246		Yes	1.99	J	Yes	0.199
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04		0.0887		Yes	0.309		Yes	0.885		Yes	2.2		Yes	0.00352	EMPC-J	Yes	0.107		Yes	1.6	J	Yes	0.152
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05		0.191		Yes	0.754		Yes	2.08		Yes	4.33	J	Yes	0.00952		Yes	0.338		Yes	3.93	J	Yes	0.448
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06		0.0962	EMPC-J	Yes	0.498		Yes	1.27		Yes	2.99	J	Yes	0.00826		Yes	0.177		Yes	2.23	J	Yes	0.386
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07		0.271		Yes	0.622		Yes	1.51		Yes	3.1	J	Yes	0.00634		Yes	0.243		Yes	2.83	J	Yes	0.332
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08		0.0836		Yes	0.346		Yes	0.841		Yes	1.97		Yes	0.0042	EMPC-J	Yes	0.139		Yes	2.03	J	Yes	0.255
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010		0.451		Yes	0.777		Yes	1.84		Yes	4.47	J	Yes	0.00833		Yes	0.202		Yes	4.12	J	Yes	0.343
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032		0.483		Yes	0.927		Yes	1.96		Yes	6.16	J	Yes	0.00986	EMPC-J	Yes	0.333		Yes	5.26	J	Yes	0.438
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037		0.178		Yes	0.214		Yes	0.477		Yes	1.28		Yes	0.000706	U	No	0.08		Yes	0.901	J	Yes	0.0802
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022		0.724		Yes	1.12		Yes	2.25		Yes	7.26	J	Yes	0.00876	EMPC-J	Yes	0.377		Yes	3.9	J	Yes	0.329
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028		0.284		Yes	0.461		Yes	0.976		Yes	3.13		Yes	0.00514		Yes	0.177		Yes	1.78	J	Yes	0.158
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010		0.0704		Yes	0.105		Yes	0.25		Yes	0.516		Yes	0.000987	U	No	0.03		Yes	0.559	J	Yes	0.0672
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032		0.0886		Yes	0.167		Yes	0.388		Yes	0.889		Yes	0.00186	EMPC-J	Yes	0.0676		Yes	1.13	J	Yes	0.1
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037		0.042		Yes	0.0516		Yes	0.118		Yes	0.275		Yes	0.000546	U	No	0.0208		Yes	0.237	J	Yes	0.0232
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022		0.0843		Yes	0.127		Yes	0.267		Yes	0.736		Yes	0.000891	U	No	0.0479		Yes	0.581	J	Yes	0.0572
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028		0.0261		Yes	0.0402		Yes	0.0895		Yes	0.239		Yes	0.000833	U	No	0.0146		Yes	0.175	J	Yes	0.017
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010		0.281		Yes	0.477		Yes	1.13		Yes	2.71	J	Yes	0.00483		Yes	0.125		Yes	2.53	J	Yes	0.22
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032		0.341		Yes	0.654		Yes	1.4		Yes	4.27	J	Yes	0.00699	EMPC-J	Yes	0.238		Yes	3.78	J	Yes	0.317
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037		0.119		Yes	0.144		Yes	0.322		Yes	0.845		Yes	0.000318	U	No	0.0544		Yes	0.613	J	Yes	0.0555
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022		0.517		Yes	0.799		Yes	1.61		Yes	5.15	J	Yes	0.00607	EMPC-J	Yes	0.271		Yes	2.83	J	Yes	0.241
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028		0.177		Yes	0.287		Yes	0.609		Yes	1.93		Yes	0.00318		Yes	0.11		Yes	1.12	J	Yes	0.0996

BERA Tissue Chemistry Data from Above Dundee Dam

					PCB-207		PCB-208			Decachlorobiphenyl			Total PCB Congeners			Total PCB Congeners (ND=0.5DL)			Total PCB Congeners (ND=DL)		
					µg/kg		µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	J	Yes	0.935	J	Yes	0.957	J	Yes	531	J	Yes	531	J	Yes	531	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	J	Yes	3.03	J	Yes	3.4	J	Yes	1330	J	Yes	1330	J	Yes	1330	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001		Yes	8.04	J	Yes	9.33	J	Yes	2130	J	Yes	2130	J	Yes	2130	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	J	Yes	5.58	J	Yes	5.55	J	Yes	2050	J	Yes	2050	J	Yes	2050	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	J	Yes	1.58	J	Yes	1.61	J	Yes	948	J	Yes	948	J	Yes	948	J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	J	Yes	6.41	J	Yes	6.44	J	Yes	3260	J	Yes	3260	J	Yes	3260	J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01		Yes	0.395		Yes	0.451		Yes	302	J	Yes	302	J	Yes	302	J	Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	J	Yes	3.61	J	Yes	3.65	J	Yes	1880	J	Yes	1880	J	Yes	1880	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01		Yes	0.136		Yes	0.285		Yes	107	J	Yes	107	J	Yes	107	J	Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	J	Yes	1.57	J	Yes	2.22	J	Yes	853	J	Yes	853	J	Yes	853	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01		Yes	4.14	J	Yes	4.72	J	Yes	2080	J	Yes	2080	J	Yes	2080	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02		Yes	4.74	J	Yes	5.87	J	Yes	1760	J	Yes	1760	J	Yes	1760	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	J	Yes	4.72	J	Yes	5.5	J	Yes	1690	J	Yes	1690	J	Yes	1690	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01		Yes	0.0722		Yes	0.0827		Yes	85.9	J	Yes	85.9	J	Yes	85.9	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	J	Yes	0.173	J	Yes	0.226		Yes	98.1	J	Yes	98.2	J	Yes	98.2	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03		Yes	0.106		Yes	0.142	J	Yes	60	J	Yes	60	J	Yes	60	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01		Yes	2.57	J	Yes	2.93	J	Yes	1310	J	Yes	1310	J	Yes	1310	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	J	Yes	2.86	J	Yes	3.55	J	Yes	1080	J	Yes	1080	J	Yes	1080	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	J	Yes	2.77	J	Yes	3.24	J	Yes	1000	J	Yes	1000	J	Yes	1000	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	J	Yes	1.26	J	Yes	2.27		Yes	781	J	Yes	781	J	Yes	781	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02		Yes	2.54		Yes	3.81		Yes	1240	J	Yes	1240	J	Yes	1240	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	J	Yes	0.96	J	Yes	1.33	J	Yes	930	J	Yes	930	J	Yes	930	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	J	Yes	0.904	J	Yes	1.53	J	Yes	660	J	Yes	660	J	Yes	660	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05		Yes	2.2		Yes	3.53	J	Yes	1360	J	Yes	1360	J	Yes	1360	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	J	Yes	1.3	J	Yes	3.01		Yes	1110	J	Yes	1110	J	Yes	1110	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	J	Yes	1.73	J	Yes	2.69		Yes	1810	J	Yes	1810	J	Yes	1810	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	J	Yes	0.917	J	Yes	2.13		Yes	624	J	Yes	624	J	Yes	624	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01		Yes	0.101		Yes	0.207		Yes	93.4	J	Yes	93.4	J	Yes	93.5	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02		Yes	0.0838		Yes	0.148		Yes	74.4	J	Yes	74.4	J	Yes	74.5	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03		Yes	0.0432		Yes	0.0674		Yes	59	J	Yes	59	J	Yes	59	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04		Yes	0.0332		Yes	0.0602		Yes	42.7	J	Yes	42.7	J	Yes	42.7	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05		Yes	0.0473		Yes	0.0875		Yes	50.2	J	Yes	50.2	J	Yes	50.2	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06		Yes	0.0156		Yes	0.0354		Yes	29.8	J	Yes	29.8	J	Yes	29.9	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07		Yes	0.145		Yes	0.25		Yes	190	J	Yes	190	J	Yes	190	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08		Yes	0.155		Yes	0.369		Yes	107	J	Yes	107	J	Yes	107	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	J	Yes	0.825	J	Yes	1.5		Yes	523	J	Yes	523	J	Yes	523	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02		Yes	1.58		Yes	2.37		Yes	783	J	Yes	783	J	Yes	783	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	J	Yes	0.606	J	Yes	0.843	J	Yes	594	J	Yes	594	J	Yes	594	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	J	Yes	0.548	J	Yes	0.929	J	Yes	408	J	Yes	408	J	Yes	408	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05		Yes	1.35		Yes	2.17	J	Yes	841	J	Yes	841	J	Yes	841	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	J	Yes	0.784	J	Yes	1.81		Yes	676	J	Yes	676	J	Yes	676	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	J	Yes	1.06	J	Yes	1.67		Yes	1130	J	Yes	1130	J	Yes	1130	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	J	Yes	0.599	J	Yes	1.4		Yes	408	J	Yes	408	J	Yes	408	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	J	Yes	2.02	J	Yes	2.9	J	Yes	1300	J	Yes	1300	J	Yes	1300	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032		Yes	2.54		Yes	3.48		Yes	910	J	Yes	910	J	Yes	910	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037		Yes	0.382		Yes	0.396		Yes	497	J	Yes	497	J	Yes	497	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	J	Yes	1.74	J	Yes	2.04	J	Yes	1210	J	Yes	1210	J	Yes	1210	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	J	Yes	0.843	J	Yes	0.939		Yes	569	J	Yes	569	J	Yes	569	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010		Yes	0.28		Yes	0.418		Yes	221	J	Yes	221	J	Yes	221	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032		Yes	0.469		Yes	0.666		Yes	205	J	Yes	206	J	Yes	206	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037		Yes	0.0947		Yes	0.105		Yes	104	J	Yes	104	J	Yes	104	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022		Yes	0.234		Yes	0.306		Yes	165	J	Yes	165	J	Yes	165	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028		Yes	0.0692		Yes	0.0798		Yes	69.1	J	Yes	69.1	J	Yes	69.1	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	J	Yes	1.24	J	Yes	1.79	J	Yes	819	J	Yes	819	J	Yes	819	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032		Yes	1.8		Yes	2.47		Yes	657	J	Yes	657	J	Yes	657	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037		Yes	0.258		Yes	0.27		Yes	327	J	Yes	327	J	Yes	327	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	J	Yes	1.25	J	Yes	1.48	J	Yes	872	J	Yes	872	J	Yes	872	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	J	Yes	0.523	J	Yes	0.583		Yes	362	J	Yes	362	J	Yes	362	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	PCB TEQ-Bird ng/kg			PCB TEQ-Bird (ND=0.5DL) ng/kg			PCB TEQ-Bird (ND=DL) ng/kg			PCB TEQ-Bird (KM) ng/kg			PCB TEQ-Fish ng/kg			PCB TEQ-Fish (ND=0.5DL) ng/kg			PCB TEQ-Fish (ND=DL) ng/kg			PCB TEQ-Fish (ng/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	18.4	J	Yes	18.4	J	Yes	18.4	J	Yes	18.4		Yes	0.7	J	Yes	0.7	J	Yes	0.701	J	Yes	0.701	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	59.7	J	Yes	59.7	J	Yes	59.7	J	Yes	59.7		Yes	1.67	J	Yes	1.67	J	Yes	1.67	J	Yes	1.67	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	60.5	J	Yes	60.5	J	Yes	60.6	J	Yes	60.5		Yes	3.37	J	Yes	3.37	J	Yes	3.37	J	Yes	3.37	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	57.7	J	Yes	57.7	J	Yes	57.7	J	Yes	57.7		Yes	3	J	Yes	3	J	Yes	3	J	Yes	3	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	33.5	J	Yes	33.5	J	Yes	33.5	J	Yes	33.5		Yes	1.28	J	Yes	1.28	J	Yes	1.28	J	Yes	1.28	
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	235	J	Yes	235	J	Yes	235	J	Yes	235		Yes	4.42	J	Yes	4.42	J	Yes	4.42	J	Yes	4.42	
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	26.8	J	Yes	26.8	J	Yes	26.8	J	Yes	26.8		Yes	0.425	J	Yes	0.425	J	Yes	0.425	J	Yes	0.425	
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	138	J	Yes	138	J	Yes	138	J	Yes	138		Yes	2.56	J	Yes	2.56	J	Yes	2.56	J	Yes	2.56	
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	15.6	J	Yes	15.6	J	Yes	15.6	J	Yes	15.6		Yes	0.147	J	Yes	0.147	J	Yes	0.147	J	Yes	0.147	
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	136	J	Yes	136	J	Yes	136	J	Yes	136		Yes	0.968	J	Yes	0.968	J	Yes	0.968	J	Yes	0.968	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	178	J	Yes	178	J	Yes	178	J	Yes	178		Yes	2.34	J	Yes	2.34	J	Yes	2.34	J	Yes	2.34	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	147	J	Yes	147	J	Yes	147	J	Yes	147		Yes	1.94	J	Yes	1.94	J	Yes	1.94	J	Yes	1.94	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	158	J	Yes	158	J	Yes	159	J	Yes	158		Yes	1.98	J	Yes	1.98	J	Yes	1.98	J	Yes	1.98	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	8.34	J	Yes	8.34	J	Yes	8.34	J	Yes	8.34		Yes	0.0831	J	Yes	0.0832	J	Yes	0.0832	J	Yes	0.0832	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	9.15	J	Yes	9.16	J	Yes	9.17	J	Yes	9.16		Yes	0.0995	J	Yes	0.0999	J	Yes	0.1	J	Yes	0.0999	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	5.95	J	Yes	5.95	J	Yes	5.95	J	Yes	5.95		Yes	0.0618	J	Yes	0.0618	J	Yes	0.0618	J	Yes	0.0618	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	113	J	Yes	113	J	Yes	113	J	Yes	113		Yes	1.47	J	Yes	1.47	J	Yes	1.47	J	Yes	1.47	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	90.3	J	Yes	90.3	J	Yes	90.4	J	Yes	90.3		Yes	1.18	J	Yes	1.18	J	Yes	1.18	J	Yes	1.18	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	93.8	J	Yes	93.8	J	Yes	94.4	J	Yes	93.8		Yes	1.17	J	Yes	1.17	J	Yes	1.17	J	Yes	1.17	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	89.1	J	Yes	89.1	J	Yes	89.1	J	Yes	89.1		Yes	1.01	J	Yes	1.01	J	Yes	1.01	J	Yes	1.01	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	139	J	Yes	139	J	Yes	139	J	Yes	139		Yes	1.61	J	Yes	1.61	J	Yes	1.61	J	Yes	1.61	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	114	J	Yes	114	J	Yes	114	J	Yes	114		Yes	1.14	J	Yes	1.14	J	Yes	1.14	J	Yes	1.14	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	93.4	J	Yes	93.4	J	Yes	93.4	J	Yes	93.4		Yes	0.872	J	Yes	0.872	J	Yes	0.873	J	Yes	0.873	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	134	J	Yes	134	J	Yes	134	J	Yes	134		Yes	1.58	J	Yes	1.58	J	Yes	1.58	J	Yes	1.58	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	164	J	Yes	164	J	Yes	164	J	Yes	164		Yes	1.72	J	Yes	1.72	J	Yes	1.72	J	Yes	1.72	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	127	J	Yes	127	J	Yes	127	J	Yes	127		Yes	1.28	J	Yes	1.28	J	Yes	1.29	J	Yes	1.29	
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	82.9	J	Yes	82.9	J	Yes	82.9	J	Yes	82.9		Yes	0.798	J	Yes	0.798	J	Yes	0.798	J	Yes	0.798	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	10.1	J	Yes	10.1	J	Yes	10.1	J	Yes	10.1		Yes	0.1	J	Yes	0.1	J	Yes	0.1	J	Yes	0.1	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	9.86	J	Yes	9.87	J	Yes	9.87	J	Yes	9.87		Yes	0.0852	J	Yes	0.0852	J	Yes	0.0852	J	Yes	0.0852	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	7.61	J	Yes	7.61	J	Yes	7.61	J	Yes	7.61		Yes	0.0707	J	Yes	0.0708	J	Yes	0.0708	J	Yes	0.0708	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	6.11	J	Yes	6.11	J	Yes	6.11	J	Yes	6.11		Yes	0.0467	J	Yes	0.0467	J	Yes	0.0467	J	Yes	0.0467	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	6.31	J	Yes	6.31	J	Yes	6.31	J	Yes	6.31		Yes	0.0605	J	Yes	0.0605	J	Yes	0.0605	J	Yes	0.0605	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	3.85	J	Yes	3.85	J	Yes	3.85	J	Yes	3.85		Yes	0.0357	J	Yes	0.0358	J	Yes	0.0358	J	Yes	0.0358	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	11.1	J	Yes	11.1	J	Yes	11.1	J	Yes	11.1		Yes	0.117	J	Yes	0.117	J	Yes	0.117	J	Yes	0.117	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	12.4	J	Yes	12.4	J	Yes	12.4	J	Yes	12.4		Yes	0.13	J	Yes	0.13	J	Yes	0.13	J	Yes	0.13	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	59.5	J	Yes	59.5	J	Yes	59.5	J	Yes	59.5		Yes	0.669	J	Yes	0.669	J	Yes	0.669	J	Yes	0.669	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	88.4	J	Yes	88.4	J	Yes	88.4	J	Yes	88.4		Yes	1.01	J	Yes	1.01	J	Yes	1.01	J	Yes	1.01	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	72.9	J	Yes	72.9	J	Yes	72.9	J	Yes	72.9		Yes	0.727	J	Yes	0.727	J	Yes	0.727	J	Yes	0.727	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	57.7	J	Yes	57.7	J	Yes	57.7	J	Yes	57.7		Yes	0.534	J	Yes	0.534	J	Yes	0.535	J	Yes	0.535	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	83.4	J	Yes	83.4	J	Yes	83.4	J	Yes	83.4		Yes	0.978	J	Yes	0.978	J	Yes	0.978	J	Yes	0.978	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	99.6	J	Yes	99.6	J	Yes	99.6	J	Yes	99.6		Yes	1.04	J	Yes	1.04	J	Yes	1.04	J	Yes	1.04	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	78.3	J	Yes	78.3	J	Yes	78.3	J	Yes	78.3		Yes	0.792	J	Yes	0.792	J	Yes	0.797	J	Yes	0.797	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	53.5	J	Yes	53.5	J	Yes	53.5	J	Yes	53.5		Yes	0.519	J	Yes	0.519	J	Yes	0.519	J	Yes	0.519	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	164	J	Yes	164	J	Yes	164	J	Yes	164		Yes	1.1	J	Yes	1.1	J	Yes	1.1	J	Yes	1.1	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	108	J	Yes	108	J	Yes	108	J	Yes	108		Yes	1.04	J	Yes	1.04	J	Yes	1.04	J	Yes	1.04	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	47.9	J	Yes	47.9	J	Yes	47.9	J	Yes	47.9		Yes	0.483	J	Yes	0.483	J	Yes	0.483	J	Yes	0.483	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	136	J	Yes	136	J	Yes	136	J	Yes	136		Yes	1.58	J	Yes	1.58	J	Yes	1.58	J	Yes	1.58	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	82.4	J	Yes	82.4	J	Yes	82.4	J	Yes	82.4		Yes	0.8	J	Yes	0.8	J	Yes	0.8	J	Yes	0.8	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	30.1	J	Yes	30.1	J	Yes	30.1	J	Yes	30.1		Yes	0.192	J	Yes	0.192	J	Yes	0.192	J	Yes	0.192	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	27	J	Yes	27	J	Yes	27	J	Yes	27		Yes	0.232	J	Yes	0.232	J	Yes	0.232	J	Yes	0.232	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	9.69	J	Yes	9.69	J	Yes	9.69	J	Yes	9.69		Yes	0.101	J	Yes	0.101	J	Yes	0.101	J	Yes	0.101	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	23.1	J	Yes	23.1	J	Yes	23.1	J	Yes	23.1		Yes	0.239	J	Yes	0.239	J	Yes	0.239	J	Yes	0.239	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	11.4	J	Yes	11.4	J	Yes	11.4	J	Yes	11.4		Yes	0.102	J	Yes	0.102	J	Yes	0.102	J	Yes	0.102	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	104	J	Yes	104	J	Yes	104	J	Yes	104		Yes	0.695	J	Yes	0.695	J	Yes	0.695	J	Yes	0.695	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	78.9	J	Yes	78.9	J	Yes	78.9	J	Yes	78.9		Yes	0.75	J	Yes	0.75	J	Yes	0.75	J	Yes	0.75	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	31.4	J	Yes	31.4	J	Yes	31.4	J	Yes	31.4		Yes	0.318	J	Yes	0.318	J	Yes	0.318	J	Yes	0.318	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	99.5	J	Yes	99.5	J	Yes	99.5	J	Yes	99.5		Yes	1.15	J	Yes	1.15	J	Yes	1.15	J	Yes	1.15	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	53	J	Yes	53	J	Yes	53	J	Yes	53		Yes	0.511	J	Yes	0.511	J	Yes	0.511	J	Yes	0.511	

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	KM) Detect	PCB TEQ-Mammal ng/kg Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	Yes	9.57	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes	21.2	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes	45.4	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	Yes	39.5	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes	17.4	J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes	60.6	J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	Yes	5.68	J	Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes	35	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	Yes	1.73	J	Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	Yes	10.8	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes	28.6	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes	24.1	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes	24.6	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	Yes	0.933	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	Yes	1.19	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	Yes	0.739	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes	17.9	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes	14.7	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes	14.5	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	Yes	13.1	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes	21.1	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes	14.2	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	Yes	10.8	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	Yes	19.6	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes	22.5	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	Yes	16.1	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	Yes	9.68	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	Yes	1.19	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	Yes	0.997	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	Yes	0.868	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	Yes	0.52	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	Yes	0.73	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	Yes	0.453	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	Yes	1.45	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	Yes	1.59	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	Yes	8.63	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes	13.2	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes	9.05	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	Yes	6.6	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	Yes	12.1	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes	13.6	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes	9.95	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	Yes	6.31	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	Yes	11.2	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes	12.6	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes	5.77	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes	19.6	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	Yes	9.66	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	Yes	1.94	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	Yes	2.66	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	Yes	1.21	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	Yes	2.95	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	Yes	1.23	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	Yes	7.07	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes	9.03	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes	3.8	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes	14.2	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes	6.17	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	PCB TEQ-Mammal (ND=0.5DL) ng/kg			PCB TEQ-Mammal (ND=DL) ng/kg			PCB TEQ-Mammal (KM) ng/kg			Monochlorobiphenyl µg/kg			Dichlorobiphenyl µg/kg			Trichlorobiphenyl µg/kg			Tetrachlorobiphenyl µg/kg			Pentachlorobiph µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	9.69	J	Yes	9.81	J	Yes	9.61		Yes	0.0673		Yes	3.25	EMPC-J	Yes	13.5		Yes	84.1	J	Yes	144	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	21.5	J	Yes	21.8	J	Yes	21.3		Yes	0.0121	EMPC-J	Yes	1.24	EMPC-J	Yes	25.6	J	Yes	251	J	Yes	422	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	45.9	J	Yes	46.4	J	Yes	45.5		Yes	0.0464	EMPC-J	Yes	1.91	EMPC-J	Yes	12.1		Yes	135	EMPC-J	Yes	530	EMPC-J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	39.9	J	Yes	40.3	J	Yes	39.7		Yes	0.0917		Yes	4.13	EMPC-J	Yes	20.6	J	Yes	161	J	Yes	580	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	17.6	J	Yes	17.9	J	Yes	17.5		Yes	0.123		Yes	5.02	EMPC-J	Yes	27	J	Yes	143	EMPC-J	Yes	271	EMPC-J
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	60.9	J	Yes	61.1	J	Yes	60.8		Yes	0.0955		Yes	8.69	J	Yes	170	J	Yes	640	J	Yes	959	J
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	5.73	J	Yes	5.78	J	Yes	5.7		Yes	0.0551		Yes	1.19	J	Yes	18.7		Yes	70	J	Yes	89.1	J
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	35.2	J	Yes	35.3	J	Yes	35.1		Yes	0.0767		Yes	5.2	J	Yes	99.5	J	Yes	374	J	Yes	554	J
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	1.76	J	Yes	1.79	J	Yes	1.74		Yes	0.0166		Yes	0.719	J	Yes	7.24		Yes	25.6	J	Yes	30.3	J
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	10.8	J	Yes	10.9	J	Yes	10.8		Yes	0.0519		Yes	1.81	EMPC-J	Yes	59.1	J	Yes	292	J	Yes	234	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	29	J	Yes	29.4	J	Yes	28.8		Yes	0.0516	EMPC-J	Yes	5.82		Yes	145	J	Yes	461	J	Yes	675	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	24.3	J	Yes	24.6	J	Yes	24.2		Yes	0.0339	EMPC-J	Yes	4.27	EMPC-J	Yes	111	J	Yes	401	J	Yes	507	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	25	J	Yes	25.3	J	Yes	24.8		Yes	0.0461	EMPC-J	Yes	5.05		Yes	103	J	Yes	377	J	Yes	512	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.955	J	Yes	0.976	J	Yes	0.938		Yes	0.00728		Yes	0.566	EMPC-J	Yes	9.86		Yes	26.3	J	Yes	25	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	1.41	J	Yes	1.63	J	Yes	1.21		Yes	0.00658		Yes	0.46		Yes	9.8		Yes	29.4	J	Yes	27.7	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.751	J	Yes	0.763	J	Yes	0.743		Yes	0.00601		Yes	0.427		Yes	6.31		Yes	17.9	J	Yes	17.2	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	18.2	J	Yes	18.4	J	Yes	18		Yes	0.0345	EMPC-J	Yes	3.79	EMPC-J	Yes	92.8	J	Yes	293	J	Yes	424	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	14.9	J	Yes	15.2	J	Yes	14.8		Yes	0.0227	EMPC-J	Yes	2.7	EMPC-J	Yes	69.4	J	Yes	248	J	Yes	310	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	14.8	J	Yes	14.9	J	Yes	14.6		Yes	0.0292	EMPC-J	Yes	3.1		Yes	62.2	J	Yes	225	J	Yes	303	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	13.2	J	Yes	13.2	J	Yes	13.1		Yes	0.0402		Yes	3.81	J	Yes	50.4	J	Yes	191	J	Yes	231	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	21.2	J	Yes	21.3	J	Yes	21.2		Yes	0.0599		Yes	5.54	J	Yes	72.4	J	Yes	298	J	Yes	358	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	14.3	J	Yes	14.4	J	Yes	14.2		Yes	0.0493		Yes	3.41	J	Yes	57.6	J	Yes	187	J	Yes	244	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	10.9	J	Yes	10.9	J	Yes	10.8		Yes	0.032		Yes	2.58	J	Yes	41.6	J	Yes	192	J	Yes	184	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	19.8	J	Yes	20	J	Yes	19.7		Yes	0.071		Yes	6.42		Yes	74.1	J	Yes	329	J	Yes	397	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	22.6	J	Yes	22.7	J	Yes	22.6		Yes	0.147		Yes	8.28		Yes	67.7	J	Yes	282	J	Yes	326	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	16.2	J	Yes	16.3	J	Yes	16.1		Yes	0.152		Yes	6.32		Yes	229	J	Yes	857	J	Yes	325	J
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	9.74	J	Yes	9.81	J	Yes	9.73		Yes	0.0457		Yes	2.9	EMPC-J	Yes	39.7	J	Yes	165	J	Yes	182	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	1.2	J	Yes	1.22	J	Yes	1.19		Yes	0.0182		Yes	0.614	J	Yes	10.7		Yes	28.2	J	Yes	25.9	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	1.01	J	Yes	1.02	J	Yes	1		Yes	0.0253	EMPC-J	Yes	0.607	J	Yes	9.74		Yes	23.2	J	Yes	20	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.88	J	Yes	0.892	J	Yes	0.873		Yes	0.0172		Yes	0.374	J	Yes	5.6		Yes	14.7	J	Yes	14.9	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.532	J	Yes	0.544	J	Yes	0.525		Yes	0.0115		Yes	0.308	J	Yes	5.7		Yes	15.4	J	Yes	10.6	EMPC-J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.745	J	Yes	0.761	J	Yes	0.736		Yes	0.0186		Yes	0.538	J	Yes	7.14	EMPC-J	Yes	14.1	J	Yes	13.5	EMPC-J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.461	J	Yes	0.469	J	Yes	0.456		Yes	0.0199		Yes	0.499	J	Yes	5.06		Yes	9.97	J	Yes	7.48	EMPC-J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	1.48	J	Yes	1.51	J	Yes	1.46		Yes	0.0565		Yes	0.888	J	Yes	39	J	Yes	83.7	J	Yes	30.7	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	1.62	J	Yes	1.65	J	Yes	1.6		Yes	0.0177		Yes	0.513	J	Yes	9.78		Yes	25.2	J	Yes	30.5	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	8.7	J	Yes	8.71	J	Yes	8.63		Yes	0.032		Yes	2.61	J	Yes	35.5	J	Yes	130	J	Yes	154	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	13.3	J	Yes	13.4	J	Yes	13.3		Yes	0.0463	EMPC-J	Yes	3.61	J	Yes	47.8	J	Yes	190	J	Yes	226	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	9.12	J	Yes	9.19	J	Yes	9.06		Yes	0.0369		Yes	2.24	J	Yes	37.5	J	Yes	120	J	Yes	156	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	6.66	J	Yes	6.66	J	Yes	6.6		Yes	0.0236		Yes	1.65	J	Yes	26.9	J	Yes	120	J	Yes	113	EMPC-J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	12.3	J	Yes	12.4	J	Yes	12.2		Yes	0.0502		Yes	4.09	J	Yes	47.6	EMPC-J	Yes	204	J	Yes	245	EMPC-J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	13.7	J	Yes	13.8	J	Yes	13.7		Yes	0.0959		Yes	5.15	J	Yes	42.5	J	Yes	173	J	Yes	198	EMPC-J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	10	J	Yes	10.1	J	Yes	9.95		Yes	0.112		Yes	4.04	J	Yes	149	J	Yes	532	J	Yes	201	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	6.35	J	Yes	6.41	J	Yes	6.34		Yes	0.034		Yes	1.9	EMPC-J	Yes	27.2	J	Yes	107	J	Yes	119	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	11.3	J	Yes	11.4	J	Yes	11.2		Yes	0.372		Yes	13.5	J	Yes	250	J	Yes	413	J	Yes	308	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	12.7	J	Yes	12.8	J	Yes	12.7		Yes	0.0944		Yes	8.07	J	Yes	103	EMPC-J	Yes	213	J	Yes	232	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	5.84	J	Yes	5.92	J	Yes	5.8		Yes	0.064	EMPC-J	Yes	3.9	J	Yes	63.7	J	Yes	156	J	Yes	139	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	19.7	J	Yes	19.8	J	Yes	19.7		Yes	0.192		Yes	9.01	J	Yes	86	EMPC-J	Yes	249	J	Yes	356	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	9.76	J	Yes	9.86	J	Yes	9.71		Yes	0.069		Yes	4.02	J	Yes	53.8	J	Yes	129	J	Yes	164	EMPC-J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	1.97	J	Yes	1.99	J	Yes	1.95		Yes	0.129		Yes	3.1	J	Yes	45.1	J	Yes	75.7	J	Yes	49.7	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	2.69	J	Yes	2.72	J	Yes	2.68		Yes	0.0483		Yes	2.23	J	Yes	24.1		Yes	50.9	J	Yes	52.6	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	1.23	J	Yes	1.25	J	Yes	1.22		Yes	0.0379		Yes	1.01	J	Yes	13.7	EMPC-J	Yes	31.6	J	Yes	27.2	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	2.98	J	Yes	3.01	J	Yes	2.96		Yes	0.0618		Yes	1.74	J	Yes	12.6		Yes	40	J	Yes	46.2	EMPC-J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	1.25	J	Yes	1.27	J	Yes	1.24		Yes	0.0251		Yes	0.87	J	Yes	8.7		Yes	18.2	J	Yes	19.5	EMPC-J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	7.14	J	Yes	7.2	J	Yes	7.07		Yes	0.264		Yes	8.86	J	Yes	159	J	Yes	263	J	Yes	193	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	9.11	J	Yes	9.18	J	Yes	9.1		Yes	0.0779		Yes	5.97	J	Yes	74.7	EMPC-J	Yes	155	J	Yes	168	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	3.84	J	Yes	3.9	J	Yes	3.82		Yes	0.0527	EMPC-J	Yes	2.65	J	Yes	42.1	EMPC-J	Yes	102	J	Yes	90.6	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	14.3	J	Yes	14.4	J	Yes	14.3		Yes	0.15		Yes	6.66	J	Yes	62.3	EMPC-J	Yes	181	J	Yes	256	EMPC-J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	6.24	J	Yes	6.3	J	Yes	6.2		Yes	0.0508		Yes	2.72	J	Yes	35.1	J	Yes	83.1	J	Yes	104	EMPC-J

BERA Tissue Chemistry Data from Above Dundee Dam

					enyl	Hexachlorobiphenyl			Heptachlorobiphenyl			Octachlorobiphenyl			Nonachlorobiphenyl		
						µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	Yes	169	J	Yes	87.4	J	Yes	24.8	J	Yes	3.57	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes	366	J	Yes	186	J	Yes	62.7	EMPC-J	Yes	10.6	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes	747	J	Yes	492	J	Yes	172	J	Yes	29.1	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	Yes	707	J	Yes	417	J	Yes	131	J	Yes	19.4	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes	291	J	Yes	157	J	Yes	45.7	J	Yes	6.15	J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes	853	J	Yes	450	J	Yes	149		Yes	20.2	J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	Yes	75.4	J	Yes	35.6	J	Yes	9.44		Yes	1.58	J	Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes	491	J	Yes	257	J	Yes	84		Yes	11.5	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	Yes	27.1		Yes	12	J	Yes	3.03	J	Yes	0.745	J	Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	Yes	166	J	Yes	69.3	J	Yes	22.6	J	Yes	5.12	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes	484	EMPC-J	Yes	222	J	Yes	68.1	J	Yes	14.1	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes	434	J	Yes	212	J	Yes	67.7	J	Yes	16.6	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes	416	J	Yes	193	J	Yes	61.6	J	Yes	15.4	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	Yes	17.1	J	Yes	5.44	J	Yes	1.28	J	Yes	0.25	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	Yes	19.8	EMPC-J	Yes	7.88	J	Yes	2.33	J	Yes	0.589	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	Yes	11.9	J	Yes	4.56	EMPC-J	Yes	1.31	EMPC-J	Yes	0.358	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes	304	EMPC-J	Yes	138	J	Yes	42.3	J	Yes	8.75	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes	264	EMPC-J	Yes	128	J	Yes	40.8	J	Yes	10	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes	245	J	Yes	113	EMPC-J	Yes	36.2	EMPC-J	Yes	9.05	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	Yes	188	J	Yes	84.5	J	Yes	24.9	J	Yes	5.06	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes	308	J	Yes	140	J	Yes	44.6		Yes	9.17	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes	255	J	Yes	139	J	Yes	38.2	J	Yes	4.41	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	Yes	150	J	Yes	64.1	J	Yes	19.6	EMPC-J	Yes	3.8	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	Yes	326	J	Yes	167	J	Yes	47.7		Yes	9.34	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes	270	J	Yes	112	J	Yes	30.2	J	Yes	5.63	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	Yes	227	J	Yes	122	J	Yes	36.3		Yes	6.84	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	Yes	141	J	Yes	66.3	J	Yes	19.8	EMPC-J	Yes	4.4	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	Yes	18.8		Yes	6.69	J	Yes	1.84		Yes	0.446	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	Yes	14.1		Yes	5	J	Yes	1.32		Yes	0.336	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	Yes	14.2		Yes	7.12	J	Yes	1.75		Yes	0.218	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	Yes	7.23	EMPC-J	Yes	2.57	J	Yes	0.687		Yes	0.148	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	Yes	9.92		Yes	3.73	J	Yes	1.01		Yes	0.218	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	Yes	4.86	EMPC-J	Yes	1.46	EMPC-J	Yes	0.371	EMPC-J	Yes	0.0741	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	Yes	22.1	EMPC-J	Yes	9.93	J	Yes	2.92		Yes	0.616	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	Yes	25.7	EMPC-J	Yes	10.4	J	Yes	3.36		Yes	0.751	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	Yes	125	J	Yes	55.3	J	Yes	16.3	J	Yes	3.33	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes	193	J	Yes	87.1	J	Yes	27.6		Yes	5.71	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes	162	J	Yes	88.1	J	Yes	24.1	J	Yes	2.79	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	Yes	91.6	EMPC-J	Yes	38.9	J	Yes	11.9	EMPC-J	Yes	2.31	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	Yes	201	J	Yes	102	J	Yes	29.2		Yes	5.73	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes	163	EMPC-J	Yes	67.6	EMPC-J	Yes	18.2	EMPC-J	Yes	3.4	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes	141	EMPC-J	Yes	74.9	J	Yes	22.3		Yes	4.23	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	Yes	92.9	EMPC-J	Yes	43	J	Yes	12.9	EMPC-J	Yes	2.88	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	Yes	205	EMPC-J	Yes	79.4	J	Yes	25.7	J	Yes	6.48	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes	209	J	Yes	98.4	J	Yes	35	EMPC-J	Yes	8.25	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes	93.7	EMPC-J	Yes	31.2	J	Yes	7.7		Yes	1.36	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes	326	J	Yes	140	J	Yes	39.2	EMPC-J	Yes	5.97	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	Yes	140	J	Yes	56.8	J	Yes	17.5		Yes	2.78	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	Yes	31.4		Yes	11.2	J	Yes	3.14		Yes	0.906	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	Yes	47	J	Yes	20.4	J	Yes	5.8	EMPC-J	Yes	1.7	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	Yes	20.6	EMPC-J	Yes	7.19	J	Yes	1.77		Yes	0.355	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	Yes	42.6	J	Yes	16.4	J	Yes	4.1		Yes	0.872	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	Yes	14.8	EMPC-J	Yes	5.33		Yes	1.33	EMPC-J	Yes	0.261	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	Yes	128	EMPC-J	Yes	49	J	Yes	15.6	J	Yes	3.99	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes	151	J	Yes	70.4	J	Yes	24.5	EMPC-J	Yes	5.9	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes	62	EMPC-J	Yes	20.8	J	Yes	5.13		Yes	0.925	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes	234	J	Yes	100	J	Yes	27.9	EMPC-J	Yes	4.32	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes	88.2	EMPC-J	Yes	35.5	J	Yes	10.8	EMPC-J	Yes	1.74	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					1,2,3,4,6,7,8-HpCDD			1,2,3,4,7,8-HxCDD			1,2,3,6,7,8-HxCDD			1,2,3,7,8,9-HxCDD			1,2,3,7,8-PeCDD		
					ng/kg			ng/kg			ng/kg			ng/kg			ng/kg		
Species	Tissue Type	Event	Reach	Field Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	4.46		Yes	0.315	EMPC-J	Yes	1.65	J	Yes	0.331	J	Yes	0.378	EMPC-J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	1.47	J	Yes	0.335	J	Yes	1.55	J	Yes	0.206	EMPC-J	Yes	0.516	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	2.19	J	Yes	0.414	J	Yes	1.55	EMPC-J	Yes	0.316	EMPC-J	Yes	0.566	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	1.76	J	Yes	0.444	J	Yes	1.84	J	Yes	0.4	J	Yes	0.554	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	1.9	J	Yes	0.228	EMPC-J	Yes	1.48	J	Yes	0.226	EMPC-J	Yes	0.552	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	2.82		Yes	0.61	J	Yes	2.07	J	Yes	0.385	EMPC-J	Yes	0.634	EMPC-J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	1.46	J	Yes	0.218	EMPC-J	Yes	1.35	J	Yes	0.259	EMPC-J	Yes	0.552	EMPC-J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	1.19	J	Yes	0.207	J	Yes	1.02	J	Yes	0.174	U	No	0.366	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	1.36	J	Yes	0.284	EMPC-J	Yes	1.5	J	Yes	0.294	J	Yes	0.687	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	1.67	J	Yes	0.319	J	Yes	1.12	J	Yes	0.421	J	Yes	0.771	EMPC-J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.735	EMPC-J	Yes	0.221	J	Yes	1	J	Yes	0.174	J	Yes	0.265	EMPC-J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	1.11	J	Yes	0.21	J	Yes	1.18	J	Yes	0.25	J	Yes	0.373	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	2.34	J	Yes	0.325	EMPC-J	Yes	1.98	J	Yes	0.357	J	Yes	0.621	EMPC-J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	1.71	J	Yes	0.324	J	Yes	1.79	J	Yes	0.339	J	Yes	0.6	EMPC-J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	1.3	EMPC-J	Yes	0.231	EMPC-J	Yes	1.28	J	Yes	0.305	J	Yes	0.442	EMPC-J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	3.12		Yes	0.629	J	Yes	2.68		Yes	0.506	J	Yes	0.958	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	1.62	J	Yes	0.516	J	Yes	1.79	J	Yes	0.271	U	No	0.641	EMPC-J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	1.03	J	Yes	0.216	EMPC-J	Yes	1.04	J	Yes	0.254	J	Yes	0.329	EMPC-J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	1.08	J	Yes	0.283	J	Yes	1.52	J	Yes	0.228	EMPC-J	Yes	0.679	EMPC-J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	2.18	J	Yes	0.54	J	Yes	1.54	J	Yes	0.606	J	Yes	1.16	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.916	J	Yes	0.191	J	Yes	0.902	J	Yes	0.197	J	Yes	0.25	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	3.53		Yes	0.78	J	Yes	3.63		Yes	0.751	EMPC-J	Yes	1.25	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.486	EMPC-J	Yes	0.174	U	No	0.573	J	Yes	0.196	U	No	0.228	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.486	J	Yes	0.112	U	No	0.27	EMPC-J	Yes	0.117	U	No	0.131	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.808	J	Yes	0.156	U	No	0.732	J	Yes	0.18	U	No	0.317	EMPC-J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	3.54		Yes	0.538	J	Yes	3.27		Yes	0.437	EMPC-J	Yes	0.876	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	2.76	EMPC-J	Yes	0.272	EMPC-J	Yes	1.35	J	Yes	0.259	J	Yes	0.326	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	1.3	J	Yes	0.275	J	Yes	1.37	J	Yes	0.227	EMPC-J	Yes	0.447	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	2.26	J	Yes	0.372	EMPC-J	Yes	1.75	EMPC-J	Yes	0.335	EMPC-J	Yes	0.592	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	1.74	J	Yes	0.39	J	Yes	1.82	J	Yes	0.373	J	Yes	0.575	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	1.6	EMPC-J	Yes	0.23	EMPC-J	Yes	1.38	J	Yes	0.266	EMPC-J	Yes	0.497	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	2.94		Yes	0.618	J	Yes	2.31	J	Yes	0.434	EMPC-J	Yes	0.764	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	1.53	J	Yes	0.352	EMPC-J	Yes	1.55	J	Yes	0.203	EMPC-J	Yes	0.592	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	1.12	J	Yes	0.211	EMPC-J	Yes	1.03	J	Yes	0.164	J	Yes	0.349	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	1.24	J	Yes	0.284	EMPC-J	Yes	1.51	J	Yes	0.267	EMPC-J	Yes	0.684	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	1.92	J	Yes	0.427	J	Yes	1.32	J	Yes	0.511	J	Yes	0.961	EMPC-J	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	0.403	J	Yes	0.072	J	Yes	0.0709	J	Yes	0.0707	UJ	No	0.104	EMPC-J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.134	EMPC-J	Yes	0.0872	U	No	0.124	EMPC-J	Yes	0.138	J	Yes	0.107	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.107	U	No	0.0891	U	No	0.0929	U	No	0.0968	U	No	0.0843	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.121	U	No	0.109	U	No	0.112	U	No	0.121	U	No	0.12	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.184	J	Yes	0.0835	U	No	0.223	J	Yes	0.13	J	Yes	0.136	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.0794	U	No	0.0953	U	No	0.0955	U	No	0.102	U	No	0.0945	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.107	U	No	0.0858	U	No	0.0877	U	No	0.0943	U	No	0.103	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	2.81		Yes	0.302	J	Yes	1.06	J	Yes	0.378	U	No	0.626	EMPC-J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	2.25	J	Yes	0.114	UJ	No	0.496	J	Yes	0.193	U	No	0.381	EMPC-J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	1.19	J	Yes	0.231	UJ	No	0.919	J	Yes	0.329	U	No	0.51	EMPC-J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	7.36		Yes	0.486	J	Yes	1.45	J	Yes	0.594	U	No	0.686	EMPC-J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	2.7		Yes	0.24	UJ	No	0.895	J	Yes	0.391	U	No	0.462	EMPC-J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	1.39	J	Yes	0.232	U	No	0.79	J	Yes	0.297	U	No	0.456	EMPC-J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	8.48		Yes	2.28	J	Yes	4.2		Yes	1.01	J	Yes	2.06	EMPC-J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	5.25		Yes	1.12	J	Yes	2.03	J	Yes	0.711	J	Yes	1.17	EMPC-J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	5.14		Yes	1.76	J	Yes	2.72		Yes	0.529	U	No	1.31	EMPC-J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	4.7		Yes	1.19	J	Yes	2.24	J	Yes	0.634	U	No	1.71	EMPC-J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	11.7		Yes	1.57	J	Yes	3.8		Yes	1.1	J	Yes	2.12	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	1.05	J	Yes	0.193	EMPC-J	Yes	0.64	J	Yes	0.209	J	Yes	0.485	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	4.09		Yes	1.08	J	Yes	2.05	J	Yes	0.482	J	Yes	1.25	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	7.14		Yes	1.23	J	Yes	3.15	J	Yes	0.675	J	Yes	1.55	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	1.88	J	Yes	0.369	EMPC-J	Yes	0.922	J	Yes	0.286	J	Yes	0.498	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	2.9		Yes	0.389	J	Yes	0.894	J	Yes	0.304	J	Yes	0.432	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	1.27	J	Yes	0.184	EMPC-J	Yes	0.589	J	Yes	0.216	J	Yes	0.394	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	2.75		Yes	1.25	J	Yes	1.78	J	Yes	0.39	J	Yes	1.01	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	1.62	J	Yes	0.517	J	Yes	1.02	J	Yes	0.284	J	Yes	0.749	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	2.96		Yes	0.544	J	Yes	1.09	EMPC-J	Yes	0.275	EMPC-J	Yes	0.753	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	8.4		Yes	1.12	J	Yes	2.41	J	Yes	0.827	J	Yes	1.6	EMPC-J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	9.38		Yes	1.77	J	Yes	3.99		Yes	0.952	J	Yes	1.8	EMPC-J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	3.63		Yes	0.647	J	Yes	1.48	J	Yes	0.407	U	No	0.795	EMPC-J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	10.7		Yes	1.22	J	Yes	2.95		Yes	0.848	J	Yes	1.41	EMPC-J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	6.05		Yes	1.01	J	Yes	2.28	J	Yes	0.632	U	No	1.18	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	12		Yes	1.51	J	Yes	3.33		Yes	0.954	J	Yes	1.7	EMPC-J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	6.94		Yes	1.86	J	Yes	3.45	J	Yes	0.825	J	Yes	1.78	EMPC-J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	4.2	J	Yes	0.886	EMPC-J	Yes	1.69	J	Yes	0.579	J	Yes	0.961	EMPC-J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	4.39		Yes	1.6	J	Yes	2.42	J	Yes	0.304	J	Yes	1.22	EMPC-J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	3.75	J	Yes	0.981	J	Yes	1.86	J	Yes	0.307	J	Yes	1.41	EMPC-J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	8.86		Yes	1.24	J	Yes	2.92	EMPC-J	Yes	0.832	EMPC-J	Yes	1.68	EMPC-J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	3.01		Yes	0.708	EMPC-J	Yes	2.5	J	Yes	0.539	U	No	1.58	EMPC-J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	1.62	J	Yes	0.92	J	Yes	3.74		Yes	0.644	U	No	2.9	EMPC-J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	2.02	J	Yes	1.1	J	Yes	3.81		Yes	0.78	J	Yes	2.85	EMPC-J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	1.61	EMPC-J	Yes	0.602	J	Yes	1.98	J	Yes	0.54	U	No	1.39	EMPC-J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.375	EMPC-J	Yes	0.192	U	No	0.309	EMPC-J	Yes	0.217	U	No	0.234	EMPC-J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.267	EMPC-J	Yes	0.148	EMPC-J	Yes	0.57	EMPC-J	Yes	0.15	J	Yes	0.584	EMPC-J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	0.49	J	Yes	0.242	J	Yes	1	J	Yes	0.222	EMPC-J	Yes	1.01	EMPC-J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					2,3,7,8-TCDD			OCDD			1,2,3,4,6,7,8-HpCDF			1,2,3,4,7,8,9-HpCDF			1,2,3,4,7,8-HxCDF			1,2,3,6,7,8-HxCDF			1,2,3,7,8,9-HxCDF			1,2,3,7,8-PeCD	
					ng/kg			ng/kg			ng/kg			ng/kg			ng/kg			ng/kg			ng/kg			ng/kg	
Species	Tissue Type	Event	Reach	Field Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.155	EMPC-J	Yes	34.5		Yes	0.663	J	Yes	0.125	U	No	0.273	J	Yes	0.157	EMPC-J	Yes	0.112	U	No	0.0888	U
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.203	EMPC-J	Yes	2.94	J	Yes	0.638	J	Yes	0.111	U	No	0.233	J	Yes	0.107	EMPC-J	Yes	0.125	U	No	0.125	U
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	0.185	EMPC-J	Yes	4.07	J	Yes	0.975	J	Yes	0.178	U	No	0.234	J	Yes	0.174	EMPC-J	Yes	0.164	U	No	0.158	U
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	0.343	J	Yes	3.57	J	Yes	0.809	J	Yes	0.196	U	No	0.343	J	Yes	0.21	EMPC-J	Yes	0.163	U	No	0.148	U
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	0.439	J	Yes	3.42	J	Yes	0.785	J	Yes	0.14	U	No	0.275	J	Yes	0.277	EMPC-J	Yes	0.131	U	No	0.115	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	0.138	EMPC-J	Yes	7.02		Yes	1.15	J	Yes	0.118	U	No	0.377	J	Yes	0.178	EMPC-J	Yes	0.121	U	No	0.103	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.139	J	Yes	2.91	J	Yes	0.581	J	Yes	0.135	U	No	0.258	EMPC-J	Yes	0.167	J	Yes	0.134	U	No	0.0723	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.168	U	No	2.63	J	Yes	0.316	EMPC-J	Yes	0.166	U	No	0.119	U	No	0.11	U	No	0.143	U	No	0.113	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.336	EMPC-J	Yes	3.47	J	Yes	0.405	EMPC-J	Yes	0.208	U	No	0.177	EMPC-J	Yes	0.168	EMPC-J	Yes	0.196	U	No	0.125	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	0.377	EMPC-J	Yes	4.51		Yes	0.689	J	Yes	0.129	U	No	0.547	J	Yes	0.448	J	Yes	0.124	U	No	0.0822	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.135	U	No	1.49	J	Yes	0.473	J	Yes	0.141	U	No	0.164	EMPC-J	Yes	0.128	J	Yes	0.128	U	No	0.0848	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.148	U	No	2.07	J	Yes	0.527	J	Yes	0.161	U	No	0.174	EMPC-J	Yes	0.16	J	Yes	0.173	U	No	0.115	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	0.288	J	Yes	3.87	J	Yes	0.857	J	Yes	0.2	U	No	0.328	J	Yes	0.272	J	Yes	0.204	U	No	0.129	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	0.295	EMPC-J	Yes	2.88	J	Yes	0.74	J	Yes	0.115	U	No	0.355	J	Yes	0.253	EMPC-J	Yes	0.129	U	No	0.108	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.324	EMPC-J	Yes	1.98	J	Yes	0.65	J	Yes	0.117	U	No	0.278	J	Yes	0.247	J	Yes	0.136	U	No	0.128	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.229	EMPC-J	Yes	5.22		Yes	1.2	J	Yes	0.137	U	No	0.434	J	Yes	0.329	J	Yes	0.172	U	No	0.133	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	0.42	J	Yes	3.49	J	Yes	1.01	J	Yes	0.178	U	No	0.39	J	Yes	0.271	EMPC-J	Yes	0.217	U	No	0.184	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.121	U	No	1.76	J	Yes	0.433	J	Yes	0.116	U	No	0.209	J	Yes	0.111	J	Yes	0.15	U	No	0.1	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.383	J	Yes	1.54	J	Yes	0.46	J	Yes	0.137	U	No	0.201	J	Yes	0.254	J	Yes	0.148	U	No	0.101	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	0.402	EMPC-J	Yes	2.66	EMPC-J	Yes	0.832	J	Yes	0.117	U	No	0.689	J	Yes	0.471	EMPC-J	Yes	0.129	U	No	0.072	U
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.197	J	Yes	2.31	J	Yes	0.338	J	Yes	0.121	U	No	0.115	EMPC-J	Yes	0.0776	U	No	0.105	U	No	0.083	U
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	0.343	J	Yes	6.27		Yes	1.13	J	Yes	0.127	U	No	0.487	J	Yes	0.43	J	Yes	0.138	U	No	0.136	U
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.198	U	No	0.959	J	Yes	0.14	EMPC-J	Yes	0.174	U	No	0.124	U	No	0.126	U	No	0.158	U	No	0.143	U
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.109	U	No	1.6	EMPC-J	Yes	0.182	J	Yes	0.102	U	No	0.0861	U	No	0.0787	U	No	0.107	U	No	0.072	U
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.149	EMPC-J	Yes	1.4	J	Yes	0.334	J	Yes	0.138	U	No	0.148	U	No	0.155	U	No	0.175	U	No	0.127	U
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	0.357	J	Yes	4.12	J	Yes	1.46	J	Yes	0.167	U	No	0.696	J	Yes	0.438	J	Yes	0.173	U	No	0.173	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.115	EMPC-J	Yes	19.4	J	Yes	0.576	J	Yes	0.0661	U	No	0.223	EMPC-J	Yes	0.144	EMPC-J	Yes	0.0596	U	No	0.0435	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.141	EMPC-J	Yes	2.52	J	Yes	0.585	J	Yes	0.0675	U	No	0.205	EMPC-J	Yes	0.132	EMPC-J	Yes	0.074	U	No	0.0601	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	0.234	EMPC-J	Yes	3.98	J	Yes	0.919	J	Yes	0.0942	U	No	0.278	J	Yes	0.22	EMPC-J	Yes	0.0915	U	No	0.0721	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	0.321	EMPC-J	Yes	3.26	J	Yes	0.778	J	Yes	0.0799	U	No	0.348	J	Yes	0.229	EMPC-J	Yes	0.0739	U	No	0.065	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	0.381	EMPC-J	Yes	2.7	J	Yes	0.717	J	Yes	0.0642	U	No	0.277	J	Yes	0.262	EMPC-J	Yes	0.0668	U	No	0.0608	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	0.174	EMPC-J	Yes	6.3		Yes	1.17	J	Yes	0.0628	U	No	0.4	J	Yes	0.239	EMPC-J	Yes	0.0707	U	No	0.0575	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.265	J	Yes	3.17	J	Yes	0.774	J	Yes	0.0772	U	No	0.317	EMPC-J	Yes	0.214	EMPC-J	Yes	0.0857	U	No	0.0613	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.0732	U	No	2.23	J	Yes	0.37	EMPC-J	Yes	0.0715	U	No	0.128	J	Yes	0.0807	J	Yes	0.0731	U	No	0.0535	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.355	EMPC-J	Yes	2.67	J	Yes	0.428	EMPC-J	Yes	0.0893	U	No	0.187	EMPC-J	Yes	0.204	EMPC-J	Yes	0.0881	U	No	0.0575	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.389	EMPC-J	Yes	3.61	EMPC-J	Yes	0.759	J	Yes	0.0616	U	No	0.616	J	Yes	0.459	EMPC-J	Yes	0.0632	U	No	0.0386	U
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	0.143	J	Yes	2.85	J	Yes	0.115	EMPC-J	Yes	0.0422	U	No	0.0283	U	No	0.0256	U	No	0.0406	U	No	0.0417	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.104	U	No	0.239	EMPC-J	Yes	0.0695	U	No	0.109	U	No	0.0618	U	No	0.0592	U	No	0.0777	U	No	0.0938	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.0998	U	No	0.17	EMPC-J	Yes	0.0721	U	No	0.0931	U	No	0.0717	U	No	0.0684	U	No	0.0875	U	No	0.089	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.111	U	No	0.187	U	No	0.0941	U	No	0.116	U	No	0.0873	U	No	0.0813	U	No	0.105	U	No	0.0926	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.0813	EMPC-J	Yes	1.3	J	Yes	0.176	J	Yes	0.116	U	No	0.0664	U	No	0.0613	U	No	0.0786	U	No	0.063	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.105	U	No	0.153	U	No	0.0666	U	No	0.0865	U	No	0.0652	U	No	0.0651	U	No	0.0832	U	No	0.0641	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.103	U	No	0.172	U	No	0.0931	U	No	0.149	U	No	0.0764	U	No	0.0726	U	No	0.0921	U	No	0.0899	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	1.19		Yes	5.15		Yes	0.837	J	Yes	0.0434	U	No	0.304	J	Yes	0.406	J	Yes	0.0355	U	No	0.131	EMPC-J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	0.266	J	Yes	24.4		Yes	0.932	J	Yes	0.058	U	No	0.177	J	Yes	0.165	U	No	0.0533	U	No	0.152	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	0.767		Yes	5.34		Yes	0.343	J	Yes	0.0724	U	No	0.264	J	Yes	0.288	U	No	0.066	U	No	0.354	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	0.373	J	Yes	67.4		Yes	2.61	J	Yes	0.151	EMPC-J	Yes	0.506	J	Yes	0.506	J	Yes	0.0727	U	No	0.412	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.41	J	Yes	3.72	J	Yes	0.765	J	Yes	0.0593	U	No	0.314	J	Yes	0.288	U	No	0.0412	U	No	0.22	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	0.22	EMPC-J	Yes	8.24		Yes	0.486	J	Yes	0.07	U	No	0.213	J	Yes	0.205	U	No	0.0592	U	No	0.27	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	2.73		Yes	10.3		Yes	2.13	J	Yes	0.157	J	Yes	1.71	J	Yes	1.35	J	Yes	0.0857	J	Yes	1.08	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	1.56		Yes	24.1		Yes	1.36	J	Yes	0.107	EMPC-J	Yes	0.975	J	Yes	0.85	J	Yes	0.0858	EMPC-J	Yes	0.764	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	1.42		Yes	28.7		Yes	1.34	J	Yes	0.0944	U	No	0.643	J	Yes	0.741	J	Yes	0.0848	U	No	0.685	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	1.51		Yes	12.2		Yes	1.39	J	Yes	0.0804	U	No	0.618	J	Yes	0.676	J	Yes	0.0556	U	No	0.732	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	1.53	EMPC-J	Yes	23.8		Yes	2.79	J	Yes	0.173	J	Yes	1.33	J	Yes	1.19	J	Yes	0.0619	U	No	0.922	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	0.82		Yes	0.995	J	Yes	0.241	EMPC-J	Yes	0.146	U	No	0.22	J	Yes	0.152	J	Yes	0.0921	U	No	0.223	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	1.42		Yes	4.23	J	Yes	0.824	J	Yes	0.122	U	No	0.651	J	Yes	0.589	J	Yes	0.0899	U	No	0.598	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	1.61		Yes	6.61		Yes	1.36	J	Yes	0.0948	U	No	0.752	J	Yes	0.938	J	Yes	0.0896	U	No	0.702	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	0.652		Yes	2.34	J	Yes	0.543	J	Yes	0.0875	U	No	0.313	J	Yes	0.316	EMPC-J	Yes	0.0724	U	No	0.337	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	0.344	EMPC-J	Yes	3.47	J	Yes	0.706	J	Yes	0.137	U	No	0.27	EMPC-J	Yes	0.344	EMPC-J	Yes	0.122	U	No	0.218	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	0.352	EMPC-J	Yes	1.63	J	Yes	0.251	EMPC-J	Yes	0.116	U	No	0.187	J	Yes	0.0981	EMPC-J	Yes	0.11	U	No	0.187	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	1.05		Yes	3.48	J	Yes	0.653	J	Yes	0.136	U	No	0.424	J	Yes	0.539	J	Yes	0.0992	U	No	0.511	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	0.638	EMPC-J	Yes	1.63	J	Yes	0.33	EMPC-J	Yes	0.137	U	No	0.255	EMPC-J	Yes	0.248	EMPC-J	Yes	0.114	U	No	0.548	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	0.566		Yes	3.07	J	Yes	0.768	J	Yes	0.184	U	No	0.367	J	Yes	0.363	EMPC-J	Yes	0.179	U	No	0.267	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	1.15		Yes	9.86		Yes	1.63	EMPC-J	Yes	0.208	U	No	0.617	J	Yes	0.632	J	Yes	0.116	U	No	0.587	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	1.8		Yes	11.6		Yes	2.12	J	Yes	0.183	EMPC-J	Yes	1.46	J	Yes	1.24	J	Yes	0.102	U	No	0.743	EMPC-J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	1.01		Yes	6.92		Yes	0.879	J	Yes	0.0865	EMPC-J	Yes	0.538	J	Yes	0.531	J	Yes	0.0584	EMPC-J	Yes	0.379	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	1.61		Yes	16.3		Yes	2.35	J	Yes	0.0653	U	No	1.08	J	Yes	1.16	J	Yes	0.0731	U	No	0.725	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	0.929		Yes	8.32		Yes	1.55	J	Yes	0.112	J	Yes	0.754	J	Yes	0.765	J	Yes	0.0671	U	No	0.739	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	1.84		Yes	21.8		Yes	2.37	J	Yes	0.127	J	Yes	1.34	J	Yes	1.23	J	Yes	0.0685	U	No	0.788	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	2.27		Yes	8.18	J	Yes	1.67	J	Yes	0.123	J	Yes	1.34	J	Yes	1.08	J	Yes	0.0714	J	Yes	0.911	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	1.28		Yes	17.3	J	Yes	1.11	J	Yes	0.0873	EMPC-J	Yes	0.769	J	Yes	0.684	EMPC-J	Yes	0.0704	EMPC-J	Yes	0.631	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	1.3		Yes	20.8	J	Yes	1.12	J	Yes	0.0537	U	No	0.574	J	Yes	0.678	J	Yes	0.0447	U	No	0.63	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	1.24	EMPC-J	Yes	8.92	J	Yes	1.06	EMPC-J	Yes	0.049	U	No	0.505	EMPC-J	Yes	0.543	EMPC-J	Yes	0.0369	U	No	0.675	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	1.22	EMPC-J	Yes	17.1	J	Yes	2.13	J	Yes	0.147	J	Yes	1.02	J	Yes	0.921	EMPC-J	Yes	0.05	U	No	0.709	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	4.05		Yes	5.1		Yes	0.753	EMPC-J	Yes	0.079	U	No	0.499	J	Yes	0.477	J	Yes	0.0649	U	No	0.64	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	6.51		Yes	3.16	J	Yes	0.371	J	Yes	0.14	U	No	0.306	J	Yes	0.345	J	Yes	0.0595	U	No	0.168	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	5.9		Yes	3.9	J	Yes	0.419	J	Yes	0.0791	U	No	0.346	EMPC-J	Yes	0.379	J	Yes	0.0642	U	No	0.21	U
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	1.08		Yes	2.45	J	Yes	0.418	J	Yes	0.112	U	No	0.339	J	Yes	0.344	J	Yes	0.075	U	No	0.151	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.816		Yes	1.32	J	Yes	0.136	U	No	0.215	U	No	0.117	U	No	0.101	U	No	0.137	U	No	0.173	U
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	1.4		Yes	0.213	U	No	0.118	U	No	0.186	U	No	0.0884	U	No	0.0881	U	No	0.106	U	No	0.107	U
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	1.95		Yes	0.51	J	Yes	0.123	J	Yes	0.185	U	No	0.123	EMPC-J	Yes	0.0813	U	No	0.11	U	No	0.0952	U

BERA Tissue Chemistry Data from Above Dundee Dam

					DF	2,3,4,6,7,8-HxCDF		
						ng/kg		
Species	Tissue Type	Event	Reach	Field Sample ID	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	No	0.149	EMPC-J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	No	0.133	EMPC-J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	No	0.142	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	No	0.228	EMPC-J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	No	0.197	EMPC-J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	No	0.187	EMPC-J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	No	0.14	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	No	0.119	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	No	0.188	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	No	0.267	EMPC-J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	No	0.175	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	No	0.153	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	No	0.21	EMPC-J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	No	0.235	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	No	0.153	EMPC-J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	No	0.298	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	No	0.223	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	No	0.153	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	No	0.191	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	No	0.32	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	No	0.0903	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	No	0.428	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	No	0.116	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	No	0.0826	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	No	0.14	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	No	0.26	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	No	0.161	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	No	0.143	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	No	0.174	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	No	0.231	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	No	0.175	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	No	0.232	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	No	0.177	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	No	0.102	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	No	0.189	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	No	0.293	EMPC-J	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	No	0.0292	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	No	0.0667	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	No	0.0625	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	No	0.0868	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	No	0.0676	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	No	0.0628	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	No	0.0745	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes	0.261	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	Yes	0.163	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes	0.309	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes	0.501	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes	0.209	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	Yes	0.271	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes	0.772	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes	0.516	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes	0.461	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	Yes	0.5	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes	0.86	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes	0.139	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes	0.337	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes	0.506	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes	0.182	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes	0.212	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes	0.134	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes	0.215	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes	0.216	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes	0.24	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes	0.365	EMPC-J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes	0.678	EMPC-J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	Yes	0.335	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes	0.657	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes	0.474	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes	0.771	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes	0.62	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes	0.412	EMPC-J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes	0.384	EMPC-J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes	0.412	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes	0.659	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes	0.483	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes	0.356	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	No	0.399	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes	0.353	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	No	0.113	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	No	0.0936	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	No	0.0912	EMPC-J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					2,3,4,7,8-PeCDF			2,3,7,8-TCDF			OCDF			PCDD TEQ-Bird			PCDD TEQ-Bird (ND=0.5DL)			PCDD TEQ-Bird (ND=DL)			PCDD TEQ-Fish			PCDD TEQ-Fish (ND	
					ng/kg			ng/kg			ng/kg			ng/kg			ng/kg			ng/kg			ng/kg			ng/kg	
Species	Tissue Type	Event	Reach	Field Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.249	J	Yes	0.0931	U	No	0.461	EMPC-J	Yes	0.606	J	Yes	0.606	J	Yes	0.606	J	Yes	0.718	J	Yes	0.718	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.172	EMPC-J	Yes	0.0934	U	No	0.198	U	No	0.774	J	Yes	0.774	J	Yes	0.774	J	Yes	0.906	J	Yes	0.906	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	0.16	J	Yes	0.11	U	No	0.251	U	No	0.821	J	Yes	0.821	J	Yes	0.821	J	Yes	0.979	J	Yes	0.979	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	0.333	J	Yes	0.181	U	No	0.282	U	No	0.98	J	Yes	0.98	J	Yes	0.98	J	Yes	1.14	J	Yes	1.14	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	0.269	EMPC-J	Yes	0.111	U	No	0.318	J	Yes	1.04	J	Yes	1.04	J	Yes	1.04	J	Yes	1.12	J	Yes	1.12	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	0.327	J	Yes	0.0881	U	No	0.233	EMPC-J	Yes	0.865	J	Yes	0.865	J	Yes	0.865	J	Yes	1.11	J	Yes	1.11	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.262	J	Yes	0.104	U	No	0.227	U	No	0.743	J	Yes	0.743	J	Yes	0.743	J	Yes	0.818	J	Yes	0.818	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.118	U	No	0.127	U	No	0.198	U	No	0.388	J	Yes	0.481	J	Yes	0.573	J	Yes	0.481	J	Yes	0.566	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.303	EMPC-J	Yes	0.127	U	No	0.314	J	Yes	1.08	J	Yes	1.08	J	Yes	1.08	J	Yes	1.18	J	Yes	1.18	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	0.612	J	Yes	0.0923	U	No	0.171	U	No	1.22	J	Yes	1.22	J	Yes	1.22	J	Yes	1.33	J	Yes	1.33	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.112	EMPC-J	Yes	0.102	U	No	0.339	U	No	0.304	J	Yes	0.372	J	Yes	0.439	J	Yes	0.388	J	Yes	0.456	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.141	EMPC-J	Yes	0.115	U	No	0.404	U	No	0.422	J	Yes	0.496	J	Yes	0.57	J	Yes	0.494	J	Yes	0.568	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	0.225	EMPC-J	Yes	0.168	U	No	0.484	U	No	0.983	J	Yes	0.983	J	Yes	0.983	J	Yes	1.1	J	Yes	1.1	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	0.273	J	Yes	0.117	U	No	0.215	U	No	0.965	J	Yes	0.965	J	Yes	0.965	J	Yes	1.08	J	Yes	1.08	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.315	J	Yes	0.111	U	No	0.286	U	No	0.822	J	Yes	0.822	J	Yes	0.822	J	Yes	0.899	J	Yes	0.899	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.337	EMPC-J	Yes	0.15	U	No	0.302	U	No	1.3	J	Yes	1.3	J	Yes	1.3	J	Yes	1.54	J	Yes	1.54	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	0.202	J	Yes	0.229	U	No	0.964	J	Yes	1.11	J	Yes	1.12	J	Yes	1.13	J	Yes	1.34	J	Yes	1.34	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.131	EMPC-J	Yes	0.0796	U	No	0.259	U	No	0.377	J	Yes	0.437	J	Yes	0.498	J	Yes	0.451	J	Yes	0.512	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.309	EMPC-J	Yes	0.0919	U	No	0.319	U	No	1.12	J	Yes	1.12	J	Yes	1.12	J	Yes	1.22	J	Yes	1.22	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	0.719	J	Yes	0.0823	U	No	0.268	U	No	1.67	J	Yes	1.67	J	Yes	1.67	J	Yes	1.86	J	Yes	1.86	J
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.132	J	Yes	0.174	EMPC-J	Yes	0.138	U	No	0.486	J	Yes	0.486	J	Yes	0.486	J	Yes	0.555	J	Yes	0.555	J
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	0.675	J	Yes	0.108	U	No	0.283	J	Yes	1.75	J	Yes	1.75	J	Yes	1.75	J	Yes	2.03	J	Yes	2.03	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.139	U	No	0.113	U	No	0.255	U	No	0.00631	J	Yes	0.233	J	Yes	0.461	J	Yes	0.00631	J	Yes	0.264	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.0748	U	No	0.0799	U	No	0.202	U	No	0.00335	J	Yes	0.132	J	Yes	0.261	J	Yes	0.00335	J	Yes	0.152	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.131	U	No	0.0976	U	No	0.213	U	No	0.474	J	Yes	0.487	J	Yes	0.5	J	Yes	0.474	J	Yes	0.514	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	0.669	J	Yes	0.129	U	No	0.321	EMPC-J	Yes	1.34	J	Yes	1.34	J	Yes	1.34	J	Yes	1.54	J	Yes	1.54	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.187	EMPC-J	Yes	0.0486	U	No	0.328	EMPC-J	Yes	0.468	J	Yes	0.499	J	Yes	0.53	J	Yes	0.568	J	Yes	0.599	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.157	EMPC-J	Yes	0.0519	U	No	0.148	U	No	0.605	J	Yes	0.641	J	Yes	0.676	J	Yes	0.708	J	Yes	0.744	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	0.191	EMPC-J	Yes	0.0687	U	No	0.181	U	No	0.898	J	Yes	0.898	J	Yes	0.898	J	Yes	1.04	J	Yes	1.04	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	0.306	J	Yes	0.0762	U	No	0.126	U	No	0.973	J	Yes	0.973	J	Yes	0.973	J	Yes	1.11	J	Yes	1.11	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	0.292	EMPC-J	Yes	0.0555	U	No	0.23	J	Yes	0.931	J	Yes	0.931	J	Yes	0.931	J	Yes	1.01	J	Yes	1.01	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	0.331	EMPC-J	Yes	0.0565	U	No	0.2	EMPC-J	Yes	1.04	J	Yes	1.04	J	Yes	1.04	J	Yes	1.28	J	Yes	1.28	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.235	J	Yes	0.0801	U	No	0.496	J	Yes	0.908	J	Yes	0.913	J	Yes	0.917	J	Yes	1.05	J	Yes	1.05	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.092	EMPC-J	Yes	0.0526	U	No	0.113	U	No	0.383	J	Yes	0.461	J	Yes	0.539	J	Yes	0.467	J	Yes	0.541	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.305	EMPC-J	Yes	0.0563	U	No	0.25	J	Yes	1.1	J	Yes	1.1	J	Yes	1.1	J	Yes	1.2	J	Yes	1.2	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.664	J	Yes	0.0437	U	No	0.109	U	No	1.44	J	Yes	1.44	J	Yes	1.44	J	Yes	1.59	J	Yes	1.59	J
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	0.181	J	Yes	0.42	J	Yes	0.211	J	Yes	0.252	J	Yes	0.256	J	Yes	0.259	J	Yes	0.284	J	Yes	0.285	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.192	J	Yes	0.234	EMPC-J	Yes	0.17	U	No	0.0152	J	Yes	0.123	J	Yes	0.231	J	Yes	0.00278	J	Yes	0.13	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.108	EMPC-J	Yes	0.0901	U	No	0.125	U	No	0.000017	J	Yes	0.0997	J	Yes	0.199	J	Yes	0.000017	J	Yes	0.115	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.081	U	No	0.0901	U	No	0.198	U	No	0.12	U	No	0.12	U	No	0.12	U	No	0.12	U	No	0.12	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.24	J	Yes	0.249	J	Yes	0.157	U	No	0.233	J	Yes	0.235	J	Yes	0.237	J	Yes	0.221	J	Yes	0.242	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.0602	U	No	0.0893	U	No	0.134	U	No	0.105	U	No	0.105	U	No	0.105	U	No	0.105	U	No	0.105	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.0785	U	No	0.0882	U	No	0.171	U	No	0.103	U	No	0.103	U	No	0.103	U	No	0.103	U	No	0.103	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	1.11	J	Yes	0.27	J	Yes	0.231	J	Yes	1.85	J	Yes	1.86	J	Yes	1.88	J	Yes	1.98	J	Yes	1.98	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	0.731	J	Yes	0.281	J	Yes	1.63	J	Yes	0.657	J	Yes	0.669	J	Yes	0.682	J	Yes	0.657	J	Yes	0.686	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	1.18	J	Yes	0.761	EMPC-J	Yes	0.269	J	Yes	1.29	J	Yes	1.31	J	Yes	1.33	J	Yes	1.29	J	Yes	1.35	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	1.09	J	Yes	1.22		Yes	4.37	J	Yes	1.11	J	Yes	1.14	J	Yes	1.17	J	Yes	1.33	J	Yes	1.33	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.823	J	Yes	0.477		Yes	0.103	EMPC-J	Yes	0.884	J	Yes	0.91	J	Yes	0.935	J	Yes	0.884	J	Yes	0.946	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	0.675	J	Yes	0.539		Yes	0.513	EMPC-J	Yes	0.686	J	Yes	0.707	J	Yes	0.727	J	Yes	0.686	J	Yes	0.746	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	3.9		Yes	6.89		Yes	0.245	J	Yes	5.06	J	Yes	5.06	J	Yes	5.06	J	Yes	5.99	J	Yes	5.99	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	2.22	J	Yes	4.31		Yes	0.477	J	Yes	2.89	J	Yes	2.89	J	Yes	2.89	J	Yes	3.33	J	Yes	3.33	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	1.94	J	Yes	5.27		Yes	0.634	J	Yes	2.85	J	Yes	2.88	J	Yes	2.91	J	Yes	3.65	J	Yes	3.65	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	2.22	J	Yes	4.5		Yes	0.859	J	Yes	3.31	J	Yes	3.34	J	Yes	3.37	J	Yes	3.84	J	Yes	3.85	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	3.16		Yes	4.01		Yes	1.18	J	Yes	3.89	J	Yes	3.89	J	Yes	3.89	J	Yes	4.5	J	Yes	4.5	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	0.683	J	Yes	1.23	EMPC-J	Yes	0.164	U	No	1.34	J	Yes	1.34	J	Yes	1.34	J	Yes	1.41	J	Yes	1.41	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	1.88	J	Yes	3.12		Yes	0.157	U	No	2.8	J	Yes	2.8	J	Yes	2.8	J	Yes	3.24	J	Yes	3.24	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	2.29	J	Yes	3.54		Yes	0.125	U	No	3.33	J	Yes	3.33	J	Yes	3.33	J	Yes	3.82	J	Yes	3.82	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	0.992	J	Yes	1.82		Yes	0.106	U	No	1.21	J	Yes	1.21	J	Yes	1.21	J	Yes	1.35	J	Yes	1.35	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	0.824	J	Yes	0.686		Yes	0.22	U	No	0.838	J	Yes	0.838	J	Yes	0.838	J	Yes	0.986	J	Yes	0.986	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	0.613	J	Yes	1.06		Yes	0.152	U	No	0.784	J	Yes	0.784	J	Yes	0.784	J	Yes	0.847	J	Yes	0.847	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	1.33	J	Yes	3.32		Yes	0.168	U	No	2.18	J	Yes	2.18	J	Yes	2.18	J	Yes	2.71	J	Yes	2.71	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	1.08	J	Yes	1.66	EMPC-J	Yes	0.186	U	No	1.45	J	Yes	1.45	J	Yes	1.45	J	Yes	1.66	J	Yes	1.66	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	0.959	EMPC-J	Yes	1.18	EMPC-J	Yes	0.279	U	No	1.39	J	Yes	1.39	J	Yes	1.39	J	Yes	1.61	J	Yes	1.61	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	1.92	J	Yes	3.19		Yes	0.143	U	No	2.92	J	Yes	2.92	J	Yes	2.92	J	Yes	3.35	J	Yes	3.35	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	2.99		Yes	3.62		Yes	0.197	U	No	3.83	J	Yes	3.83	J	Yes	3.83	J	Yes	4.54	J	Yes	4.54	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	1.38	J	Yes	2.4		Yes	0.394	J	Yes	1.86	J	Yes	1.88	J	Yes	1.9	J	Yes	2.15	J	Yes	2.15	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	2.58		Yes	4.17		Yes	0.132	J	Yes	3.21	J	Yes	3.21	J	Yes	3.21	J	Yes	3.68	J	Yes	3.68	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	1.56	J	Yes	4.94		Yes	0.381	EMPC-J	Yes	2.19	J	Yes	2.22	J	Yes	2.25	J	Yes	2.64	J	Yes	2.65	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	3.29		Yes	4.31		Yes	0.461	EMPC-J	Yes	3.76	J	Yes	3.76	J	Yes	3.76	J	Yes	4.35	J	Yes	4.35	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	3.19	J	Yes	5.57		Yes	0.187	J	Yes	4.27	J	Yes	4.27	J	Yes	4.27	J	Yes	5.03	J	Yes	5.03	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	1.84	J	Yes	3.54		Yes	0.345	J	Yes	2.37	J	Yes	2.37	J	Yes	2.37	J	Yes	2.71	J	Yes	2.71	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	1.75	J	Yes	4.66		Yes	0.461	J	Yes	2.64	J	Yes	2.66	J	Yes	2.68	J	Yes	3.35	J	Yes	3.35	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	1.87	J	Yes	3.62	EMPC-J	Yes	0.622	J	Yes	2.73	J	Yes	2.75	J	Yes	2.77	J	Yes	3.16	J	Yes	3.17	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	2.44	EMPC-J	Yes	3.09	EMPC-J	Yes	0.842	J	Yes	3.08	J	Yes	3.08	J	Yes	3.08	J	Yes	3.56	J	Yes	3.56	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	2.52		Yes	1.91		Yes	0.37	EMPC-J	Yes	5.69	J	Yes	5.72	J	Yes	5.75	J	Yes	6.01	J	Yes	6.02	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	2.62		Yes	0.581	EMPC-J	Yes	0.497	J	Yes	9.5	J	Yes	9.53	J	Yes	9.56	J	Yes	9.91	J	Yes	9.91	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	2.9		Yes	0.519		Yes	0.165	EMPC-J	Yes	8.92	J	Yes	8.92	J	Yes	8.92	J	Yes	9.35	J	Yes	9.35	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	1.91	J	Yes	0.486		Yes	0.131	EMPC-J	Yes	2.52	J	Yes	2.55	J	Yes	2.58	J	Yes	2.79	J	Yes	2.8	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.392	EMPC-J	Yes	0.281	EMPC-J	Yes	0.252	U	No	1.05	J	Yes	1.07	J	Yes	1.08	J	Yes	1.05	J	Yes	1.1	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.467	J	Yes	0.105	U	No	0.185	U	No	2.01	J	Yes	2.01	J	Yes	2.01	J	Yes	2.07	J	Yes	2.07	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	0.856	J	Yes	0.108	U	No	0.169	U	No	3	J	Yes	3	J	Yes	3	J	Yes	3.09	J	Yes	3.09	J

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	=0.5DL) Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	PCDD TEQ-Fish (ND=DL) ng/kg			PCDD TEQ-Mammal ng/kg			PCDD TEQ-Mammal (ND=0.5DL) ng/kg			PCDD TEQ-Mammal (ND=DL) ng/kg			PCDF TEQ-Bird ng/kg			PCDF TEQ-Bird (ND=0.5DL) ng/kg			PCDF TEQ-Bird (ND=DL) ng/kg			PCDF TEQ-Fis ng/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.718	J	Yes	0.818	J	Yes	0.818	J	Yes	0.818	J	Yes	0.314	J	Yes	0.371	J	Yes	0.428	J	Yes	0.189	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.906	J	Yes	0.944	J	Yes	0.944	J	Yes	0.944	J	Yes	0.226	J	Yes	0.285	J	Yes	0.345	J	Yes	0.14	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	0.979	J	Yes	1	J	Yes	1	J	Yes	1	J	Yes	0.225	J	Yes	0.297	J	Yes	0.369	J	Yes	0.145	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	1.14	J	Yes	1.18	J	Yes	1.18	J	Yes	1.18	J	Yes	0.419	J	Yes	0.526	J	Yes	0.633	J	Yes	0.253	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	1.12	J	Yes	1.2	J	Yes	1.2	J	Yes	1.2	J	Yes	0.352	J	Yes	0.42	J	Yes	0.489	J	Yes	0.217	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	1.11	J	Yes	1.11	J	Yes	1.11	J	Yes	1.11	J	Yes	0.413	J	Yes	0.469	J	Yes	0.524	J	Yes	0.249	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.818	J	Yes	0.889	J	Yes	0.889	J	Yes	0.889	J	Yes	0.324	J	Yes	0.387	J	Yes	0.45	J	Yes	0.193	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.651	J	Yes	0.501	J	Yes	0.594	J	Yes	0.687	J	Yes	0.00316	J	Yes	0.157	J	Yes	0.31	J	Yes	0.00316	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	1.18	J	Yes	1.25	J	Yes	1.25	J	Yes	1.25	J	Yes	0.36	J	Yes	0.441	J	Yes	0.522	J	Yes	0.209	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	1.33	J	Yes	1.35	J	Yes	1.35	J	Yes	1.35	J	Yes	0.745	J	Yes	0.802	J	Yes	0.859	J	Yes	0.439	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.523	J	Yes	0.412	J	Yes	0.48	J	Yes	0.547	J	Yes	0.163	J	Yes	0.226	J	Yes	0.288	J	Yes	0.107	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.642	J	Yes	0.549	J	Yes	0.623	J	Yes	0.697	J	Yes	0.195	J	Yes	0.268	J	Yes	0.34	J	Yes	0.124	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	1.1	J	Yes	1.2	J	Yes	1.2	J	Yes	1.2	J	Yes	0.315	J	Yes	0.416	J	Yes	0.518	J	Yes	0.202	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	1.08	J	Yes	1.16	J	Yes	1.16	J	Yes	1.16	J	Yes	0.365	J	Yes	0.436	J	Yes	0.507	J	Yes	0.228	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.899	J	Yes	0.961	J	Yes	0.961	J	Yes	0.961	J	Yes	0.389	J	Yes	0.459	J	Yes	0.528	J	Yes	0.232	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	1.54	J	Yes	1.6	J	Yes	1.6	J	Yes	1.6	J	Yes	0.455	J	Yes	0.546	J	Yes	0.637	J	Yes	0.287	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	1.34	J	Yes	1.31	J	Yes	1.32	J	Yes	1.34	J	Yes	0.301	J	Yes	0.436	J	Yes	0.571	J	Yes	0.2	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.572	J	Yes	0.491	J	Yes	0.551	J	Yes	0.612	J	Yes	0.183	J	Yes	0.236	J	Yes	0.288	J	Yes	0.117	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	1.22	J	Yes	1.28	J	Yes	1.28	J	Yes	1.28	J	Yes	0.378	J	Yes	0.437	J	Yes	0.496	J	Yes	0.224	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	1.86	J	Yes	1.85	J	Yes	1.85	J	Yes	1.85	J	Yes	0.875	J	Yes	0.927	J	Yes	0.979	J	Yes	0.516	J
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.555	J	Yes	0.586	J	Yes	0.586	J	Yes	0.586	J	Yes	0.321	J	Yes	0.339	J	Yes	0.358	J	Yes	0.0896	J
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	2.03	J	Yes	2.15	J	Yes	2.15	J	Yes	2.15	J	Yes	0.821	J	Yes	0.889	J	Yes	0.957	J	Yes	0.483	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.521	J	Yes	0.0624	J	Yes	0.294	J	Yes	0.525	J	Yes	0.0014	J	Yes	0.162	J	Yes	0.322	J	Yes	0.0014	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.301	J	Yes	0.0323	J	Yes	0.164	J	Yes	0.295	J	Yes	0.00182	J	Yes	0.101	J	Yes	0.2	J	Yes	0.00182	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.554	J	Yes	0.548	J	Yes	0.565	J	Yes	0.581	J	Yes	0.00334	J	Yes	0.156	J	Yes	0.308	J	Yes	0.00334	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	1.54	J	Yes	1.69	J	Yes	1.69	J	Yes	1.69	J	Yes	0.823	J	Yes	0.906	J	Yes	0.988	J	Yes	0.489	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.629	J	Yes	0.633	J	Yes	0.664	J	Yes	0.694	J	Yes	0.245	J	Yes	0.305	J	Yes	0.364	J	Yes	0.152	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.779	J	Yes	0.754	J	Yes	0.79	J	Yes	0.825	J	Yes	0.211	J	Yes	0.277	J	Yes	0.343	J	Yes	0.132	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	1.04	J	Yes	1.09	J	Yes	1.09	J	Yes	1.09	J	Yes	0.268	J	Yes	0.353	J	Yes	0.439	J	Yes	0.172	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	1.11	J	Yes	1.17	J	Yes	1.17	J	Yes	1.17	J	Yes	0.395	J	Yes	0.486	J	Yes	0.577	J	Yes	0.242	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	1.01	J	Yes	1.08	J	Yes	1.08	J	Yes	1.08	J	Yes	0.371	J	Yes	0.44	J	Yes	0.509	J	Yes	0.225	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	1.28	J	Yes	1.31	J	Yes	1.31	J	Yes	1.31	J	Yes	0.43	J	Yes	0.5	J	Yes	0.569	J	Yes	0.264	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	1.05	J	Yes	1.08	J	Yes	1.08	J	Yes	1.09	J	Yes	0.314	J	Yes	0.409	J	Yes	0.504	J	Yes	0.196	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.615	J	Yes	0.496	J	Yes	0.574	J	Yes	0.653	J	Yes	0.0857	J	Yes	0.193	J	Yes	0.3	J	Yes	0.0554	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	1.2	J	Yes	1.26	J	Yes	1.26	J	Yes	1.26	J	Yes	0.367	J	Yes	0.439	J	Yes	0.511	J	Yes	0.215	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	1.59	J	Yes	1.59	J	Yes	1.59	J	Yes	1.59	J	Yes	0.808	J	Yes	0.863	J	Yes	0.918	J	Yes	0.477	J
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	0.285	J	Yes	0.266	J	Yes	0.27	J	Yes	0.273	J	Yes	0.602	J	Yes	0.611	J	Yes	0.619	J	Yes	0.113	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.257	J	Yes	0.0276	J	Yes	0.137	J	Yes	0.247	J	Yes	0.426	J	Yes	0.445	J	Yes	0.464	J	Yes	0.108	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.231	J	Yes	0.000051	J	Yes	0.107	J	Yes	0.213	J	Yes	0.108	J	Yes	0.173	J	Yes	0.238	J	Yes	0.054	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.12	U	No	0.12	U	No	0.12	U	No	0.12	U	No	0.0901	U	No	0.0901	U	No	0.0901	U	No	0.0405	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.263	J	Yes	0.255	J	Yes	0.259	J	Yes	0.263	J	Yes	0.491	J	Yes	0.508	J	Yes	0.526	J	Yes	0.134	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.105	U	No	0.105	U	No	0.105	U	No	0.105	U	No	0.0893	U	No	0.0893	U	No	0.0893	U	No	0.0301	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.103	U	No	0.103	U	No	0.103	U	No	0.103	U	No	0.0882	U	No	0.0882	U	No	0.0882	U	No	0.03925	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	1.98	J	Yes	1.98	J	Yes	2	J	Yes	2.02	J	Yes	1.47	J	Yes	1.49	J	Yes	1.5	J	Yes	0.654	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	0.716	J	Yes	0.726	J	Yes	0.742	J	Yes	0.757	J	Yes	1.05	J	Yes	1.07	J	Yes	1.09	J	Yes	0.414	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	1.41	J	Yes	1.38	J	Yes	1.41	J	Yes	1.44	J	Yes	2.01	J	Yes	2.04	J	Yes	2.07	J	Yes	0.676	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	1.34	J	Yes	1.35	J	Yes	1.38	J	Yes	1.41	J	Yes	2.53	J	Yes	2.53	J	Yes	2.54	J	Yes	0.806	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	1.01	J	Yes	0.99	J	Yes	1.02	J	Yes	1.05	J	Yes	1.36	J	Yes	1.39	J	Yes	1.42	J	Yes	0.485	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	0.805	J	Yes	0.771	J	Yes	0.798	J	Yes	0.824	J	Yes	1.27	J	Yes	1.29	J	Yes	1.32	J	Yes	0.404	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	5.99	J	Yes	5.63	J	Yes	5.63	J	Yes	5.63	J	Yes	11.3	J	Yes	11.3	J	Yes	11.3	J	Yes	2.76	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	3.33	J	Yes	3.18	J	Yes	3.18	J	Yes	3.18	J	Yes	6.86	J	Yes	6.86	J	Yes	6.86	J	Yes	1.62	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	3.65	J	Yes	3.24	J	Yes	3.26	J	Yes	3.29	J	Yes	7.48	J	Yes	7.48	J	Yes	7.49	J	Yes	1.47	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	3.85	J	Yes	3.61	J	Yes	3.65	J	Yes	3.68	J	Yes	6.99	J	Yes	6.99	J	Yes	6.99	J	Yes	1.56	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	4.5	J	Yes	4.42	J	Yes	4.42	J	Yes	4.42	J	Yes	7.63	J	Yes	7.63	J	Yes	7.64	J	Yes	2.19	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	1.41	J	Yes	1.42	J	Yes	1.42	J	Yes	1.42	J	Yes	1.99	J	Yes	1.99	J	Yes	2	J	Yes	0.468	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	3.24	J	Yes	3.07	J	Yes	3.07	J	Yes	3.07	J	Yes	5.23	J	Yes	5.23	J	Yes	5.24	J	Yes	1.29	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	3.82	J	Yes	3.74	J	Yes	3.74	J	Yes	3.74	J	Yes	6.13	J	Yes	6.14	J	Yes	6.14	J	Yes	1.59	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	1.35	J	Yes	1.33	J	Yes	1.33	J	Yes	1.33	J	Yes	2.93	J	Yes	2.94	J	Yes	2.94	J	Yes	0.69	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	0.986	J	Yes	0.965	J	Yes	0.965	J	Yes	0.965	J	Yes	1.62	J	Yes	1.63	J	Yes	1.64	J	Yes	0.547	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	0.847	J	Yes	0.858	J	Yes	0.858	J	Yes	0.858	J	Yes	1.74	J	Yes	1.74	J	Yes	1.75	J	Yes	0.413	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	2.71	J	Yes	2.43	J	Yes	2.43	J	Yes	2.43	J	Yes	4.83	J	Yes	4.83	J	Yes	4.84	J	Yes	0.981	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	1.66	J	Yes	1.59	J	Yes	1.59	J	Yes	1.59	J	Yes	2.87	J	Yes	2.88	J	Yes	2.88	J	Yes	0.726	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	1.61	J	Yes	1.54	J	Yes	1.54	J	Yes	1.54	J	Yes	2.27	J	Yes	2.28	J	Yes	2.29	J	Yes	0.657	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	3.35	J	Yes	3.27	J	Yes	3.27	J	Yes	3.27	J	Yes	5.35	J	Yes	5.35	J	Yes	5.36	J	Yes	1.33	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	4.54	J	Yes	4.37	J	Yes	4.37	J	Yes	4.37	J	Yes	7.05	J	Yes	7.05	J	Yes	7.06	J	Yes	2.07	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	2.15	J	Yes	2.06	J	Yes	2.08	J	Yes	2.1	J	Yes	3.97	J	Yes	3.97	J	Yes	3.97	J	Yes	0.985	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	3.68	J	Yes	3.63	J	Yes	3.63	J	Yes	3.63	J	Yes	7.14	J	Yes	7.14	J	Yes	7.14	J	Yes	1.85	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	2.65	J	Yes	2.5	J	Yes	2.53	J	Yes	2.56	J	Yes	6.79	J	Yes	6.79	J	Yes	6.8	J	Yes	1.28	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	4.35	J	Yes	4.25	J	Yes	4.25	J	Yes	4.25	J	Yes	8.04	J	Yes	8.04	J	Yes	8.04	J	Yes	2.26	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	5.03	J	Yes	4.73	J	Yes	4.73	J	Yes	4.73	J	Yes	9.18	J	Yes	9.18	J	Yes	9.18	J	Yes	2.25	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	2.71	J	Yes	2.6	J	Yes	2.6	J	Yes	2.6	J	Yes	5.64	J	Yes	5.64	J	Yes	5.64	J	Yes	1.33	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	3.35	J	Yes	2.99	J	Yes	3	J	Yes	3.02	J	Yes	6.65	J	Yes	6.65	J	Yes	6.66	J	Yes	1.32	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	3.17	J	Yes	2.98	J	Yes	3.01	J	Yes	3.03	J	Yes	5.71	J	Yes	5.72	J	Yes	5.72	J	Yes	1.3	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	3.56	J	Yes	3.48	J	Yes	3.48	J	Yes	3.48	J	Yes	5.89	J	Yes	5.89	J	Yes	5.9	J	Yes	1.69	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	6.02	J	Yes	5.98	J	Yes	6.01	J	Yes	6.04	J	Yes	4.65	J	Yes	4.65	J	Yes	4.65	J	Yes	1.54	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	9.92	J	Yes	9.89	J	Yes	9.93	J	Yes	9.96	J	Yes	3.32	J	Yes	3.33	J	Yes	3.33	J	Yes	1.45	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	9.35	J	Yes	9.34	J	Yes	9.34	J	Yes	9.34	J	Yes	3.54	J	Yes	3.55	J	Yes	3.56	J	Yes	1.59	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	2.8	J	Yes	2.75	J	Yes	2.77	J	Yes	2.8	J	Yes	2.52	J	Yes	2.52	J	Yes	2.53	J	Yes	1.09	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	1.15	J	Yes	1.09	J	Yes	1.11	J	Yes	1.13	J	Yes	0.673	J	Yes	0.707	J	Yes	0.741	J	Yes	0.21	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	2.07	J	Yes	2.07	J	Yes	2.07	J	Yes	2.07	J	Yes	0.467	J	Yes	0.545	J	Yes	0.623	J	Yes	0.234	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	3.09	J	Yes	3.11	J	Yes	3.11	J	Yes	3.11	J	Yes	0.879	J	Yes	0.948	J	Yes	1.02	J	Yes	0.451	J

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	sh	PCDF TEQ-Fish (ND=0.5DL)		
						ng/kg		
					Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	Yes	0.2	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	Yes	0.152	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	Yes	0.161	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	Yes	0.27	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	Yes	0.23	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	Yes	0.261	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	Yes	0.205	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	Yes	0.064	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	Yes	0.226	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	Yes	0.45	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	Yes	0.119	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	Yes	0.14	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	Yes	0.221	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	Yes	0.241	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	Yes	0.245	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	Yes	0.303	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	Yes	0.222	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	Yes	0.13	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	Yes	0.237	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	Yes	0.527	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	Yes	0.106	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	Yes	0.497	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	Yes	0.0696	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	Yes	0.0426	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	Yes	0.0733	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	Yes	0.506	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	Yes	0.163	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	Yes	0.146	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	Yes	0.189	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	Yes	0.257	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	Yes	0.238	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	Yes	0.278	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	Yes	0.213	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	Yes	0.0943	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	Yes	0.231	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	Yes	0.488	J	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	Yes	0.12	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	Yes	0.124	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	Yes	0.0738	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	No	0.0405	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	Yes	0.15	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	No	0.0301	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	No	0.03925	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes	0.669	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	Yes	0.434	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes	0.709	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes	0.81	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes	0.513	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	Yes	0.431	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes	2.76	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes	1.62	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes	1.47	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	Yes	1.57	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes	2.2	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes	0.473	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes	1.3	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes	1.6	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes	0.694	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes	0.554	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes	0.419	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes	0.987	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes	0.732	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes	0.666	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes	1.33	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes	2.08	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	Yes	0.985	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes	1.85	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes	1.28	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes	2.26	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes	2.25	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes	1.33	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes	1.32	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes	1.31	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes	1.7	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes	1.54	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes	1.46	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	Yes	1.6	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes	1.1	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	Yes	0.24	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	Yes	0.259	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	Yes	0.466	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					PCDF TEQ-Fish (ND=DL)			PCDF TEQ-Mammal			PCDF TEQ-Mammal (ND=0.5DL)			PCDF TEQ-Mammal (ND=DL)			Dioxin TEQ-Bird			Dioxin TEQ-Bird (ND=0.5DL)			Dioxin TEQ-Bird (ND=DL)		
					ng/kg			ng/kg			ng/kg			ng/kg			ng/kg			ng/kg			ng/kg		
Species	Tissue Type	Event	Reach	Field Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.211	J	Yes	0.139	J	Yes	0.152	J	Yes	0.164	J	Yes	0.92	J	Yes	0.977	J	Yes	1.03	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	0.164	J	Yes	0.105	J	Yes	0.119	J	Yes	0.132	J	Yes	0.999	J	Yes	1.06	J	Yes	1.12	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	0.176	J	Yes	0.113	J	Yes	0.13	J	Yes	0.147	J	Yes	1.05	J	Yes	1.12	J	Yes	1.19	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	0.287	J	Yes	0.186	J	Yes	0.207	J	Yes	0.227	J	Yes	1.4	J	Yes	1.51	J	Yes	1.61	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	0.243	J	Yes	0.164	J	Yes	0.178	J	Yes	0.193	J	Yes	1.39	J	Yes	1.46	J	Yes	1.53	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	0.272	J	Yes	0.184	J	Yes	0.196	J	Yes	0.209	J	Yes	1.28	J	Yes	1.33	J	Yes	1.39	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	0.217	J	Yes	0.141	J	Yes	0.155	J	Yes	0.168	J	Yes	1.07	J	Yes	1.13	J	Yes	1.19	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.125	J	Yes	0.00316	J	Yes	0.0543	J	Yes	0.105	J	Yes	0.391	J	Yes	0.637	J	Yes	0.884	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	0.243	J	Yes	0.148	J	Yes	0.167	J	Yes	0.186	J	Yes	1.44	J	Yes	1.52	J	Yes	1.6	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	0.462	J	Yes	0.317	J	Yes	0.329	J	Yes	0.342	J	Yes	1.96	J	Yes	2.02	J	Yes	2.08	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.131	J	Yes	0.085	J	Yes	0.0986	J	Yes	0.112	J	Yes	0.468	J	Yes	0.598	J	Yes	0.727	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.155	J	Yes	0.0963	J	Yes	0.113	J	Yes	0.13	J	Yes	0.617	J	Yes	0.763	J	Yes	0.91	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	0.239	J	Yes	0.157	J	Yes	0.179	J	Yes	0.2	J	Yes	1.3	J	Yes	1.4	J	Yes	1.5	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	0.254	J	Yes	0.174	J	Yes	0.188	J	Yes	0.203	J	Yes	1.33	J	Yes	1.4	J	Yes	1.47	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	0.259	J	Yes	0.169	J	Yes	0.184	J	Yes	0.199	J	Yes	1.21	J	Yes	1.28	J	Yes	1.35	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	0.319	J	Yes	0.219	J	Yes	0.238	J	Yes	0.257	J	Yes	1.75	J	Yes	1.85	J	Yes	1.94	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	0.244	J	Yes	0.159	J	Yes	0.185	J	Yes	0.211	J	Yes	1.41	J	Yes	1.56	J	Yes	1.71	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.142	J	Yes	0.0909	J	Yes	0.105	J	Yes	0.118	J	Yes	0.559	J	Yes	0.673	J	Yes	0.786	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	0.25	J	Yes	0.162	J	Yes	0.176	J	Yes	0.19	J	Yes	1.49	J	Yes	1.55	J	Yes	1.61	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	0.538	J	Yes	0.372	J	Yes	0.384	J	Yes	0.397	J	Yes	2.54	J	Yes	2.59	J	Yes	2.65	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.122	J	Yes	0.0719	J	Yes	0.0874	J	Yes	0.103	J	Yes	0.807	J	Yes	0.826	J	Yes	0.844	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	0.511	J	Yes	0.348	J	Yes	0.363	J	Yes	0.378	J	Yes	2.57	J	Yes	2.64	J	Yes	2.71	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.138	J	Yes	0.0014	J	Yes	0.0572	J	Yes	0.113	J	Yes	0.00771	J	Yes	0.395	J	Yes	0.782	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.0833	J	Yes	0.00182	J	Yes	0.0364	J	Yes	0.0709	J	Yes	0.00517	J	Yes	0.233	J	Yes	0.461	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.143	J	Yes	0.00334	J	Yes	0.0614	J	Yes	0.119	J	Yes	0.478	J	Yes	0.643	J	Yes	0.808	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	0.523	J	Yes	0.355	J	Yes	0.373	J	Yes	0.392	J	Yes	2.16	J	Yes	2.25	J	Yes	2.33	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.175	J	Yes	0.114	J	Yes	0.128	J	Yes	0.14	J	Yes	0.714	J	Yes	0.804	J	Yes	0.892	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.16	J	Yes	0.101	J	Yes	0.116	J	Yes	0.131	J	Yes	0.816	J	Yes	0.917	J	Yes	1.02	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	0.206	J	Yes	0.134	J	Yes	0.153	J	Yes	0.172	J	Yes	1.17	J	Yes	1.25	J	Yes	1.34	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	0.272	J	Yes	0.181	J	Yes	0.198	J	Yes	0.216	J	Yes	1.37	J	Yes	1.46	J	Yes	1.55	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	0.251	J	Yes	0.167	J	Yes	0.181	J	Yes	0.196	J	Yes	1.3	J	Yes	1.37	J	Yes	1.44	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	0.291	J	Yes	0.198	J	Yes	0.213	J	Yes	0.228	J	Yes	1.47	J	Yes	1.54	J	Yes	1.61	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	0.229	J	Yes	0.149	J	Yes	0.169	J	Yes	0.187	J	Yes	1.22	J	Yes	1.32	J	Yes	1.42	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.133	J	Yes	0.0434	J	Yes	0.0776	J	Yes	0.111	J	Yes	0.468	J	Yes	0.654	J	Yes	0.839	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	0.246	J	Yes	0.154	J	Yes	0.171	J	Yes	0.188	J	Yes	1.46	J	Yes	1.53	J	Yes	1.6	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	0.499	J	Yes	0.344	J	Yes	0.356	J	Yes	0.369	J	Yes	2.24	J	Yes	2.3	J	Yes	2.36	J	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	0.128	J	Yes	0.0975	J	Yes	0.105	J	Yes	0.112	J	Yes	0.854	J	Yes	0.866	J	Yes	0.878	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.141	J	Yes	0.081	J	Yes	0.0966	J	Yes	0.112	J	Yes	0.441	J	Yes	0.568	J	Yes	0.694	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.0936	J	Yes	0.0324	J	Yes	0.0536	J	Yes	0.0748	J	Yes	0.108	J	Yes	0.272	J	Yes	0.437	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.0405	U	No	0.0243	U	No	0.0243	U	No	0.0243	U	No	0.12	U	No	0.12	U	No	0.12	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.166	J	Yes	0.0987	J	Yes	0.114	J	Yes	0.129	J	Yes	0.724	J	Yes	0.743	J	Yes	0.763	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.0301	U	No	0.01806	U	No	0.01806	U	No	0.01806	U	No	0.105	U	No	0.105	U	No	0.105	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.03925	U	No	0.02355	U	No	0.02355	U	No	0.02355	U	No	0.103	U	No	0.103	U	No	0.103	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	0.685	J	Yes	0.443	J	Yes	0.458	J	Yes	0.473	J	Yes	3.32	J	Yes	3.35	J	Yes	3.39	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	0.453	J	Yes	0.279	J	Yes	0.299	J	Yes	0.318	J	Yes	1.71	J	Yes	1.74	J	Yes	1.77	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	0.743	J	Yes	0.471	J	Yes	0.504	J	Yes	0.538	J	Yes	3.29	J	Yes	3.35	J	Yes	3.41	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	0.813	J	Yes	0.642	J	Yes	0.645	J	Yes	0.649	J	Yes	3.64	J	Yes	3.68	J	Yes	3.71	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	0.54	J	Yes	0.34	J	Yes	0.367	J	Yes	0.395	J	Yes	2.25	J	Yes	2.3	J	Yes	2.35	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	0.458	J	Yes	0.291	J	Yes	0.318	J	Yes	0.345	J	Yes	1.95	J	Yes	2	J	Yes	2.05	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	2.76	J	Yes	2.31	J	Yes	2.31	J	Yes	2.31	J	Yes	16.4	J	Yes	16.4	J	Yes	16.4	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	1.62	J	Yes	1.38	J	Yes	1.38	J	Yes	1.38	J	Yes	9.75	J	Yes	9.75	J	Yes	9.75	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	1.48	J	Yes	1.33	J	Yes	1.33	J	Yes	1.34	J	Yes	10.3	J	Yes	10.4	J	Yes	10.4	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	1.57	J	Yes	1.33	J	Yes	1.33	J	Yes	1.34	J	Yes	10.3	J	Yes	10.3	J	Yes	10.4	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	2.2	J	Yes	1.74	J	Yes	1.75	J	Yes	1.75	J	Yes	11.5	J	Yes	11.5	J	Yes	11.5	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	0.478	J	Yes	0.388	J	Yes	0.393	J	Yes	0.399	J	Yes	3.33	J	Yes	3.34	J	Yes	3.34	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	1.3	J	Yes	1.06	J	Yes	1.07	J	Yes	1.07	J	Yes	8.02	J	Yes	8.03	J	Yes	8.03	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	1.6	J	Yes	1.3	J	Yes	1.3	J	Yes	1.31	J	Yes	9.46	J	Yes	9.47	J	Yes	9.47	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	0.699	J	Yes	0.576	J	Yes	0.58	J	Yes	0.584	J	Yes	4.14	J	Yes	4.14	J	Yes	4.15	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	0.56	J	Yes	0.412	J	Yes	0.419	J	Yes	0.426	J	Yes	2.46	J	Yes	2.47	J	Yes	2.47	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	0.425	J	Yes	0.34	J	Yes	0.346	J	Yes	0.352	J	Yes	2.52	J	Yes	2.53	J	Yes	2.53	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	0.992	J	Yes	0.871	J	Yes	0.876	J	Yes	0.882	J	Yes	7.01	J	Yes	7.01	J	Yes	7.02	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	0.738	J	Yes	0.582	J	Yes	0.588	J	Yes	0.594	J	Yes	4.32	J	Yes	4.33	J	Yes	4.34	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	0.676	J	Yes	0.518	J	Yes	0.528	J	Yes	0.538	J	Yes	3.66	J	Yes	3.67	J	Yes	3.68	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	1.34	J	Yes	1.09	J	Yes	1.1	J	Yes	1.1	J	Yes	8.27	J	Yes	8.28	J	Yes	8.28	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	2.08	J	Yes	1.64	J	Yes	1.65	J	Yes	1.65	J	Yes	10.9	J	Yes	10.9	J	Yes	10.9	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	0.985	J	Yes	0.821	J	Yes	0.821	J	Yes	0.821	J	Yes	5.83	J	Yes	5.85	J	Yes	5.87	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	1.86	J	Yes	1.53	J	Yes	1.53	J	Yes	1.53	J	Yes	10.3	J	Yes	10.3	J	Yes	10.4	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	1.29	J	Yes	1.2	J	Yes	1.2	J	Yes	1.21	J	Yes	8.98	J	Yes	9.01	J	Yes	9.05	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	2.27	J	Yes	1.8	J	Yes	1.8	J	Yes	1.81	J	Yes	11.8	J	Yes	11.8	J	Yes	11.8	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	2.25	J	Yes	1.87	J	Yes	1.88	J	Yes	1.88	J	Yes	13.5	J	Yes	13.5	J	Yes	13.5	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	1.33	J	Yes	1.13	J	Yes	1.13	J	Yes	1.13	J	Yes	8.01	J	Yes	8.01	J	Yes	8.01	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	1.33	J	Yes	1.19	J	Yes	1.19	J	Yes	1.2	J	Yes	9.27	J	Yes	9.34	J	Yes	9.34	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	1.31	J	Yes	1.1	J	Yes	1.1	J	Yes	1.11	J	Yes	8.45	J	Yes	8.45	J	Yes	8.52	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	1.7	J	Yes	1.34	J	Yes	1.35	J	Yes	1.36	J	Yes	8.95	J	Yes	8.96	J	Yes	8.96	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	1.55	J	Yes	1.12	J	Yes	1.12	J	Yes	1.13	J	Yes	10.3	J	Yes	10.4	J	Yes	10.4	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	1.46	J	Yes	0.954	J	Yes	0.957	J	Yes	0.961	J	Yes	12.8	J	Yes	12.9	J	Yes	12.9	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	1.61	J	Yes	1.04	J	Yes	1.05	J	Yes	1.05	J	Yes	12.5	J	Yes	12.5	J	Yes	12.5	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	1.1	J	Yes	0.734	J	Yes	0.738	J	Yes	0.743	J	Yes	5.04	J	Yes	5.07	J	Yes	5.1	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	0.269	J	Yes	0.146	J	Yes	0.173	J	Yes	0.201	J	Yes	1.73	J	Yes	1.78	J	Yes	1.83	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	0.285	J	Yes	0.14	J	Yes	0.167	J	Yes	0.195	J	Yes	2.48	J	Yes	2.56	J	Yes	2.64	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	0.482	J	Yes	0.279	J	Yes	0.297	J	Yes	0.314	J	Yes	3.88	J	Yes	3.95	J	Yes	4.02	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					Dioxin TEQ-Bird (KM)			Dioxin TEQ-Fish			Dioxin TEQ-Fish (ND=0.5DL)			Dioxin TEQ-Fish (ND=DL)			Dioxin TEQ-Fish (KM)			Dioxin TEQ-Mammal			Dioxin TEQ-Mammal (ND=0.5DL)			Dioxin TEQ-Mammal	
					ng/kg			ng/kg			ng/kg			ng/kg			ng/kg			ng/kg			ng/kg			ng/kg	
Species	Tissue Type	Event	Reach	Field Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	0.937		Yes	0.907	J	Yes	0.918	J	Yes	0.929	J	Yes	0.914		Yes	0.957	J	Yes	0.969	J	Yes	0.981	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	1.01		Yes	1.05	J	Yes	1.06	J	Yes	1.07	J	Yes	1.05		Yes	1.05	J	Yes	1.06	J	Yes	1.08	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	1.07		Yes	1.12	J	Yes	1.14	J	Yes	1.16	J	Yes	1.13		Yes	1.11	J	Yes	1.13	J	Yes	1.15	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	1.42		Yes	1.4	J	Yes	1.41	J	Yes	1.43	J	Yes	1.4		Yes	1.37	J	Yes	1.39	J	Yes	1.41	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	1.41		Yes	1.34	J	Yes	1.35	J	Yes	1.37	J	Yes	1.35		Yes	1.37	J	Yes	1.38	J	Yes	1.4	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	1.3		Yes	1.35	J	Yes	1.37	J	Yes	1.38	J	Yes	1.36		Yes	1.29	J	Yes	1.31	J	Yes	1.32	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	1.08		Yes	1.01	J	Yes	1.02	J	Yes	1.03	J	Yes	1.01		Yes	1.03	J	Yes	1.04	J	Yes	1.06	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	0.425		Yes	0.484	J	Yes	0.63	J	Yes	0.776	J	Yes	0.506		Yes	0.505	J	Yes	0.648	J	Yes	0.792	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	1.46		Yes	1.39	J	Yes	1.41	J	Yes	1.43	J	Yes	1.4		Yes	1.39	J	Yes	1.41	J	Yes	1.43	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	1.99		Yes	1.76	J	Yes	1.78	J	Yes	1.79	J	Yes	1.77		Yes	1.67	J	Yes	1.68	J	Yes	1.69	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	0.495		Yes	0.496	J	Yes	0.575	J	Yes	0.654	J	Yes	0.515		Yes	0.497	J	Yes	0.578	J	Yes	0.659	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	0.652		Yes	0.618	J	Yes	0.707	J	Yes	0.797	J	Yes	0.644		Yes	0.645	J	Yes	0.736	J	Yes	0.827	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	1.32		Yes	1.3	J	Yes	1.32	J	Yes	1.34	J	Yes	1.31		Yes	1.36	J	Yes	1.38	J	Yes	1.4	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	1.35		Yes	1.31	J	Yes	1.32	J	Yes	1.33	J	Yes	1.31		Yes	1.33	J	Yes	1.35	J	Yes	1.36	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	1.23		Yes	1.13	J	Yes	1.14	J	Yes	1.16	J	Yes	1.14		Yes	1.13	J	Yes	1.14	J	Yes	1.16	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	1.78		Yes	1.82	J	Yes	1.84	J	Yes	1.86	J	Yes	1.83		Yes	1.82	J	Yes	1.84	J	Yes	1.86	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	1.45		Yes	1.54	J	Yes	1.56	J	Yes	1.59	J	Yes	1.55		Yes	1.47	J	Yes	1.51	J	Yes	1.55	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	0.582		Yes	0.568	J	Yes	0.641	J	Yes	0.714	J	Yes	0.59		Yes	0.582	J	Yes	0.656	J	Yes	0.73	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	1.51		Yes	1.45	J	Yes	1.46	J	Yes	1.47	J	Yes	1.45		Yes	1.44	J	Yes	1.45	J	Yes	1.47	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	2.57		Yes	2.37	J	Yes	2.38	J	Yes	2.39	J	Yes	2.38		Yes	2.23	J	Yes	2.24	J	Yes	2.25	J
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	0.814		Yes	0.644	J	Yes	0.661	J	Yes	0.677	J	Yes	0.652		Yes	0.658	J	Yes	0.673	J	Yes	0.689	J
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	2.6		Yes	2.51	J	Yes	2.53	J	Yes	2.54	J	Yes	2.52		Yes	2.49	J	Yes	2.51	J	Yes	2.52	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	0.234		Yes	0.00771	J	Yes	0.333	J	Yes	0.659	J	Yes	0.231		Yes	0.0638	J	Yes	0.351	J	Yes	0.638	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.136		Yes	0.00517	J	Yes	0.194	J	Yes	0.384	J	Yes	0.135		Yes	0.0342	J	Yes	0.2	J	Yes	0.366	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	0.496		Yes	0.478	J	Yes	0.587	J	Yes	0.697	J	Yes	0.489		Yes	0.551	J	Yes	0.626	J	Yes	0.701	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	2.19		Yes	2.03	J	Yes	2.05	J	Yes	2.07	J	Yes	2.04		Yes	2.05	J	Yes	2.07	J	Yes	2.09	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	0.735		Yes	0.72	J	Yes	0.762	J	Yes	0.804	J	Yes	0.732		Yes	0.747	J	Yes	0.791	J	Yes	0.834	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	0.838		Yes	0.843	J	Yes	0.891	J	Yes	0.939	J	Yes	0.855		Yes	0.856	J	Yes	0.904	J	Yes	0.959	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	1.19		Yes	1.21	J	Yes	1.23	J	Yes	1.25	J	Yes	1.22		Yes	1.23	J	Yes	1.25	J	Yes	1.27	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	1.39		Yes	1.36	J	Yes	1.37	J	Yes	1.39	J	Yes	1.36		Yes	1.35	J	Yes	1.37	J	Yes	1.39	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	1.32		Yes	1.23	J	Yes	1.24	J	Yes	1.26	J	Yes	1.24		Yes	1.25	J	Yes	1.26	J	Yes	1.28	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	1.49		Yes	1.54	J	Yes	1.56	J	Yes	1.57	J	Yes	1.55		Yes	1.5	J	Yes	1.52	J	Yes	1.54	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	1.25		Yes	1.25	J	Yes	1.26	J	Yes	1.28	J	Yes	1.25		Yes	1.23	J	Yes	1.25	J	Yes	1.28	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	0.497		Yes	0.523	J	Yes	0.635	J	Yes	0.748	J	Yes	0.545		Yes	0.54	J	Yes	0.652	J	Yes	0.764	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	1.48		Yes	1.41	J	Yes	1.43	J	Yes	1.45	J	Yes	1.42		Yes	1.41	J	Yes	1.43	J	Yes	1.45	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	2.27		Yes	2.06	J	Yes	2.07	J	Yes	2.08	J	Yes	2.07		Yes	1.94	J	Yes	1.95	J	Yes	1.96	J
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	0.858		Yes	0.397	J	Yes	0.405	J	Yes	0.413	J	Yes	0.4		Yes	0.364	J	Yes	0.374	J	Yes	0.385	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.445		Yes	0.11	J	Yes	0.254	J	Yes	0.398	J	Yes	0.215		Yes	0.109	J	Yes	0.234	J	Yes	0.36	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.108	J	Yes	0.054	J	Yes	0.189	J	Yes	0.324	J	Yes	0.054	J	Yes	0.0325	J	Yes	0.16	J	Yes	0.288	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.12	U	No	0.12	U	No	0.12	U	No	0.12	U	No	0.12	U	No	0.12	U	No	0.12	U	No	0.12	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.728		Yes	0.355	J	Yes	0.392	J	Yes	0.429	J	Yes	0.361		Yes	0.353	J	Yes	0.373	J	Yes	0.392	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.105	U	No	0.105	U	No	0.105	U	No	0.105	U	No	0.105	U	No	0.105	U	No	0.105	U	No	0.105	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.103	U	No	0.103	U	No	0.103	U	No	0.103	U	No	0.103	U	No	0.103	U	No	0.103	U	No	0.103	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	3.33		Yes	2.64	J	Yes	2.65	J	Yes	2.67	J	Yes	2.64		Yes	2.43	J	Yes	2.46	J	Yes	2.49	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	1.73		Yes	1.07	J	Yes	1.12	J	Yes	1.17	J	Yes	1.09		Yes	1.01	J	Yes	1.04	J	Yes	1.08	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	3.31		Yes	1.96	J	Yes	2.06	J	Yes	2.15	J	Yes	1.99		Yes	1.85	J	Yes	1.91	J	Yes	1.98	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	3.67		Yes	2.14	J	Yes	2.14	J	Yes	2.15	J	Yes	2.14		Yes	1.99	J	Yes	2.02	J	Yes	2.05	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	2.26		Yes	1.37	J	Yes	1.46	J	Yes	1.55	J	Yes	1.39		Yes	1.33	J	Yes	1.39	J	Yes	1.45	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	1.97		Yes	1.09	J	Yes	1.18	J	Yes	1.26	J	Yes	1.11		Yes	1.06	J	Yes	1.12	J	Yes	1.17	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	16.4		Yes	8.75	J	Yes	8.75	J	Yes	8.75	J	Yes	8.75		Yes	7.93	J	Yes	7.93	J	Yes	7.93	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	9.75		Yes	4.95	J	Yes	4.95	J	Yes	4.95	J	Yes	4.95		Yes	4.55	J	Yes	4.55	J	Yes	4.55	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	10.3		Yes	5.11	J	Yes	5.12	J	Yes	5.13	J	Yes	5.12		Yes	4.57	J	Yes	4.6	J	Yes	4.63	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	10.3		Yes	5.41	J	Yes	5.41	J	Yes	5.42	J	Yes	5.41		Yes	4.95	J	Yes	4.98	J	Yes	5.01	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	11.5		Yes	6.69	J	Yes	6.7	J	Yes	6.7	J	Yes	6.69		Yes	6.17	J	Yes	6.17	J	Yes	6.17	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	3.33		Yes	1.88	J	Yes	1.88	J	Yes	1.89	J	Yes	1.88		Yes	1.81	J	Yes	1.81	J	Yes	1.82	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	8.03		Yes	4.53	J	Yes	4.54	J	Yes	4.54	J	Yes	4.53		Yes	4.13	J	Yes	4.14	J	Yes	4.14	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	9.46		Yes	5.41	J	Yes	5.42	J	Yes	5.42	J	Yes	5.41		Yes	5.03	J	Yes	5.04	J	Yes	5.04	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	4.14		Yes	2.04	J	Yes	2.04	J	Yes	2.05	J	Yes	2.04		Yes	1.9	J	Yes	1.91	J	Yes	1.91	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	2.46		Yes	1.53	J	Yes	1.54	J	Yes	1.55	J	Yes	1.54		Yes	1.38	J	Yes	1.38	J	Yes	1.39	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	2.52		Yes	1.26	J	Yes	1.27	J	Yes	1.27	J	Yes	1.26		Yes	1.2	J	Yes	1.2	J	Yes	1.21	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	7.01		Yes	3.69	J	Yes	3.7	J	Yes	3.7	J	Yes	3.69		Yes	3.3	J	Yes	3.31	J	Yes	3.31	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	4.33		Yes	2.39	J	Yes	2.39	J	Yes	2.4	J	Yes	2.39		Yes	2.17	J	Yes	2.17	J	Yes	2.18	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	3.66		Yes	2.26	J	Yes	2.27	J	Yes	2.28	J	Yes	2.27		Yes	2.06	J	Yes	2.07	J	Yes	2.08	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	8.27		Yes	4.68	J	Yes	4.69	J	Yes	4.69	J	Yes	4.68		Yes	4.36	J	Yes	4.37	J	Yes	4.38	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	10.9		Yes	6.62	J	Yes	6.62	J	Yes	6.63	J	Yes	6.62		Yes	6.01	J	Yes	6.02	J	Yes	6.02	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	5.84		Yes	3.13	J	Yes	3.13	J	Yes	3.14	J	Yes	3.13		Yes	2.88	J	Yes	2.9	J	Yes	2.92	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	10.3		Yes	5.53	J	Yes	5.53	J	Yes	5.54	J	Yes	5.53		Yes	5.16	J	Yes	5.16	J	Yes	5.17	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	9		Yes	3.92	J	Yes	3.93	J	Yes	3.94	J	Yes	3.93		Yes	3.7	J	Yes	3.74	J	Yes	3.77	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	11.8		Yes	6.61	J	Yes	6.61	J	Yes	6.62	J	Yes	6.61		Yes	6.05	J	Yes	6.05	J	Yes	6.05	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	13.5		Yes	7.27	J	Yes	7.28	J	Yes	7.28	J	Yes	7.27		Yes	6.6	J	Yes	6.6	J	Yes	6.6	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	8.01		Yes	4.04	J	Yes	4.04	J	Yes	4.05	J	Yes	4.04		Yes	3.73	J	Yes	3.73	J	Yes	3.73	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	9.27		Yes	4.66	J	Yes	4.67	J	Yes	4.68	J	Yes	4.67		Yes	4.17	J	Yes	4.19	J	Yes	4.22	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	8.45		Yes	4.47	J	Yes	4.47	J	Yes	4.48	J	Yes	4.47		Yes	4.09	J	Yes	4.11	J	Yes	4.13	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	8.95		Yes	5.25	J	Yes	5.26	J	Yes	5.26	J	Yes	5.25		Yes	4.83	J	Yes	4.84	J	Yes	4.84	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	10.4		Yes	7.55	J	Yes	7.56	J	Yes	7.57	J	Yes	7.56		Yes	7.1	J	Yes	7.13	J	Yes	7.16	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	12.8		Yes	11.4	J	Yes	11.4	J	Yes	11.4	J	Yes	11.4		Yes	10.8	J	Yes	10.9	J	Yes	10.9	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	12.5		Yes	10.9	J	Yes	10.9	J	Yes	11	J	Yes	10.9		Yes	10.4	J	Yes	10.4	J	Yes	10.4	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	5.06		Yes	3.89	J	Yes	3.89	J	Yes	3.9	J	Yes	3.89		Yes	3.48	J	Yes	3.51	J	Yes	3.54	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	1.73		Yes	1.26	J	Yes	1.34	J	Yes	1.42	J	Yes	1.27		Yes	1.23	J	Yes	1.28	J	Yes	1.33	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	2.49		Yes	2.3	J	Yes	2.32	J	Yes	2.35	J	Yes	2.3		Yes	2.21	J	Yes	2.24	J	Yes	2.27	J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	3.89		Yes	3.54	J	Yes	3.56	J	Yes	3.58	J	Yes	3.55		Yes	3.39	J	Yes	3.41	J	Yes	3.43	J

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	ND=DL)	Dioxin TEQ-Mammal (KM)		
						ng/kg		
					Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	Yes	0.962		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	Yes	1.05		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	Yes	1.12		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	Yes	1.38		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	Yes	1.37		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	Yes	1.3		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	Yes	1.03		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	Yes	0.535		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	Yes	1.4		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	Yes	1.67		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	Yes	0.518		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	Yes	0.673		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	Yes	1.36		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	Yes	1.34		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	Yes	1.14		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	Yes	1.83		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	Yes	1.49		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	Yes	0.604		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	Yes	1.44		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	Yes	2.23		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	Yes	0.662		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	Yes	2.5		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	Yes	0.289		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	Yes	0.168		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	Yes	0.57		Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	Yes	2.05		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	Yes	0.76		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	Yes	0.869		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	Yes	1.23		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	Yes	1.36		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	Yes	1.25		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	Yes	1.51		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	Yes	1.24		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	Yes	0.567		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	Yes	1.42		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	Yes	1.94		Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	Yes	0.368		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	Yes	0.212		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	Yes	0.0325	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	No	0.12	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	Yes	0.359		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	No	0.105	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	No	0.103	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes	2.44		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	Yes	1.03		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes	1.88		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes	2.02		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes	1.35		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	Yes	1.09		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes	7.93		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes	4.55		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes	4.58		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	Yes	4.97		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes	6.17		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes	1.81		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes	4.14		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes	5.03		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes	1.91		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes	1.38		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes	1.2		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes	3.3		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes	2.17		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes	2.06		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes	4.36		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes	6.01		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	Yes	2.89		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes	5.16		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes	3.72		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes	6.05		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes	6.6		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes	3.73		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes	4.18		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes	4.1		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes	4.83		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes	7.12		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes	10.9		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	Yes	10.4		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes	3.5		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	Yes	1.24		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	Yes	2.22		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	Yes	3.4		Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					Total TEQ-Bird			Total TEQ-Bird (ND=0.5DL)			Total TEQ-Bird (ND=DL)			Total TEQ-Bird (KM)			Total TEQ-Fish			Total TEQ-Fish (ND=0.5DL)		
					pg/g			pg/g			pg/g			ng/kg			pg/g			pg/g		
Species	Tissue Type	Event	Reach	Field Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	13.7	J	Yes	14.5	J	Yes	15.4	J	Yes	13.9		Yes	1.88	J	Yes	1.89	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	13.3	J	Yes	14	J	Yes	14.7	J	Yes	13.5		Yes	1.92	J	Yes	1.93	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	13.4	J	Yes	14.2	J	Yes	14.9	J	Yes	13.6		Yes	2.03	J	Yes	2.05	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	15.2	J	Yes	17.4	J	Yes	19.5	J	Yes	15.6		Yes	2.44	J	Yes	2.47	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	16	J	Yes	17.6	J	Yes	19.2	J	Yes	16.2		Yes	2.45	J	Yes	2.47	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	8.06	J	Yes	8.65	J	Yes	9.24	J	Yes	8.23		Yes	1.86	J	Yes	1.87	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	10.8	J	Yes	11.3	J	Yes	11.9	J	Yes	11		Yes	1.69	J	Yes	1.71	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	14	J	Yes	15.1	J	Yes	16.1	J	Yes	14.2		Yes	1.49	J	Yes	1.64	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	16.9	J	Yes	17.6	J	Yes	18.3	J	Yes	17		Yes	2.49	J	Yes	2.51	J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	10.9	J	Yes	11.4	J	Yes	11.8	J	Yes	11.1		Yes	2.3	J	Yes	2.32	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	13.7	J	Yes	14.3	J	Yes	15	J	Yes	13.8		Yes	1.46	J	Yes	1.54	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	10.3	J	Yes	11.2	J	Yes	12.1	J	Yes	10.5		Yes	1.38	J	Yes	1.47	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	17.4	J	Yes	18.5	J	Yes	19.5	J	Yes	17.6		Yes	2.56	J	Yes	2.59	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	22.2	J	Yes	23.3	J	Yes	24.4	J	Yes	22.4		Yes	2.76	J	Yes	2.78	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	14.6	J	Yes	15.7	J	Yes	16.8	J	Yes	14.8		Yes	2.13	J	Yes	2.15	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	10.4	J	Yes	11.5	J	Yes	12.6	J	Yes	10.7		Yes	2.49	J	Yes	2.51	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	15	J	Yes	16	J	Yes	17	J	Yes	15.2		Yes	2.54	J	Yes	2.57	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	10.8	J	Yes	11.9	J	Yes	13	J	Yes	11		Yes	1.43	J	Yes	1.51	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	17.2	J	Yes	18.4	J	Yes	19.5	J	Yes	17.5		Yes	2.71	J	Yes	2.72	J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	15.5	J	Yes	16	J	Yes	16.6	J	Yes	15.6		Yes	3.15	J	Yes	3.16	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	12.2	J	Yes	12.7	J	Yes	13.1	J	Yes	12.3		Yes	1.2	J	Yes	1.22	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	19	J	Yes	19.9	J	Yes	20.9	J	Yes	19.2		Yes	3.73	J	Yes	3.75	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	2.33	J	Yes	4.6	J	Yes	6.86	J	Yes	4.04		Yes	0.296	J	Yes	0.67	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	2.42	J	Yes	2.83	J	Yes	3.25	J	Yes	2.47		Yes	0.143	J	Yes	0.342	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	7.71	J	Yes	8.21	J	Yes	8.71	J	Yes	7.8		Yes	1	J	Yes	1.11	J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	16.7	J	Yes	17.4	J	Yes	18.1	J	Yes	16.9		Yes	3.06	J	Yes	3.08	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	13.7	J	Yes	14.4	J	Yes	15.2	J	Yes	13.9		Yes	1.69	J	Yes	1.73	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	11.9	J	Yes	12.7	J	Yes	13.5	J	Yes	12.1		Yes	1.66	J	Yes	1.71	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	15.3	J	Yes	16.2	J	Yes	17.1	J	Yes	15.5		Yes	2.28	J	Yes	2.31	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	18.3	J	Yes	20	J	Yes	21.7	J	Yes	18.6		Yes	2.58	J	Yes	2.61	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	15.3	J	Yes	16.6	J	Yes	18	J	Yes	15.5		Yes	2.29	J	Yes	2.31	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	9	J	Yes	9.79	J	Yes	10.6	J	Yes	9.22		Yes	2.11	J	Yes	2.13	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	12.7	J	Yes	13.4	J	Yes	14.2	J	Yes	12.9		Yes	2.07	J	Yes	2.1	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	12.5	J	Yes	13.6	J	Yes	14.7	J	Yes	12.7		Yes	1.46	J	Yes	1.58	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	17	J	Yes	17.9	J	Yes	18.8	J	Yes	17.2		Yes	2.58	J	Yes	2.6	J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	13.1	J	Yes	13.6	J	Yes	14.1	J	Yes	13.3		Yes	2.71	J	Yes	2.73	J	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	11.8	J	Yes	11.8	J	Yes	11.8	J	Yes	11.8		Yes	0.672	J	Yes	0.68	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	8.11	J	Yes	8.24	J	Yes	8.37	J	Yes	8.13		Yes	0.224	J	Yes	0.367	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	2.33	J	Yes	2.5	J	Yes	2.66	J	Yes	2.36		Yes	0.108	J	Yes	0.243	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	1.87		Yes	2.11		Yes	2.34		Yes	1.9		Yes	0.0442		Yes	0.232		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	7.1	J	Yes	7.12	J	Yes	7.14	J	Yes	7.1		Yes	0.455	J	Yes	0.492	J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.901		Yes	1.1		Yes	1.3		Yes	0.923		Yes	0.0291		Yes	0.187		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.567		Yes	0.783		Yes	0.998		Yes	0.579		Yes	0.0112		Yes	0.178		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	22.3	J	Yes	22.3	J	Yes	22.3	J	Yes	22.3		Yes	3.31	J	Yes	3.33	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	10.7	J	Yes	10.8	J	Yes	10.8	J	Yes	10.8		Yes	1.33	J	Yes	1.38	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	30.6	J	Yes	30.6	J	Yes	30.7	J	Yes	30.6		Yes	2.44	J	Yes	2.53	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	24.2	J	Yes	24.2	J	Yes	24.3	J	Yes	24.2		Yes	2.5	J	Yes	2.51	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	20.4	J	Yes	20.5	J	Yes	20.6	J	Yes	20.5		Yes	1.96	J	Yes	2.05	J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	13.1	J	Yes	13.1	J	Yes	13.2	J	Yes	13.1		Yes	1.36	J	Yes	1.45	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	200	J	Yes	203	J	Yes	206	J	Yes	200		Yes	10.9	J	Yes	10.9	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	102	J	Yes	102	J	Yes	102	J	Yes	102		Yes	6.07	J	Yes	6.07	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	144	J	Yes	144	J	Yes	144	J	Yes	144		Yes	6.63	J	Yes	6.64	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	222	J	Yes	222	J	Yes	222	J	Yes	222		Yes	11.8	J	Yes	11.8	J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	150	J	Yes	150	J	Yes	150	J	Yes	150		Yes	9.28	J	Yes	9.29	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	50.2	J	Yes	50.2	J	Yes	50.2	J	Yes	50.2		Yes	2.48	J	Yes	2.48	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	109	J	Yes	109	J	Yes	109	J	Yes	109		Yes	5.81	J	Yes	5.82	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	142	J	Yes	142	J	Yes	142	J	Yes	142		Yes	7.46	J	Yes	7.47	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	48.7	J	Yes	48.7	J	Yes	48.7	J	Yes	48.7		Yes	2.59	J	Yes	2.59	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	30.9	J	Yes	30.9	J	Yes	30.9	J	Yes	30.9		Yes	1.97	J	Yes	1.97	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	35.8	J	Yes	35.8	J	Yes	35.8	J	Yes	35.8		Yes	1.81	J	Yes	1.81	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	98.6	J	Yes	98.6	J	Yes	98.6	J	Yes	98.6		Yes	4.9	J	Yes	4.9	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	57.6	J	Yes	57.6	J	Yes	57.6	J	Yes	57.6		Yes	3.34	J	Yes	3.35	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	44.9	J	Yes	44.9	J	Yes	44.9	J	Yes	44.9		Yes	2.99	J	Yes	3	J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	106	J	Yes	106	J	Yes	106	J	Yes	106		Yes	6.08	J	Yes	6.09	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	140	J	Yes	140	J	Yes	140	J	Yes	140		Yes	9.11	J	Yes	9.11	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	84	J	Yes	84	J	Yes	84	J	Yes	84		Yes	3.97	J	Yes	3.97	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	118	J	Yes	120	J	Yes	123	J	Yes	118		Yes	7.23	J	Yes	7.24	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	96.2	J	Yes	96.3	J	Yes	96.3	J	Yes	96.2		Yes	4.61	J	Yes	4.62	J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	133	J	Yes	135	J	Yes	137	J	Yes	134		Yes	8.9	J	Yes	8.91	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	168	J	Yes	170	J	Yes	172	J	Yes	168		Yes	9.12	J	Yes	9.12	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	85.4	J	Yes	85.4	J	Yes	85.4	J	Yes	85.4		Yes	4.99	J	Yes	4.99	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	130	J	Yes	130	J	Yes	130	J	Yes	130		Yes	6.09	J	Yes	6.09	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	171	J	Yes	171	J	Yes	171	J	Yes	171		Yes	9.18	J	Yes	9.18	J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	116	J	Yes	116	J	Yes	116	J	Yes	116		Yes	7.24	J	Yes	7.25	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	83	J	Yes	83	J	Yes	83.1	J	Yes	83		Yes	9.58	J	Yes	9.59	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	91.2	J	Yes	91.3	J	Yes	91.3	J	Yes	91.3		Yes	15.8	J	Yes	15.8	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	85	J	Yes	85	J	Yes	85	J	Yes	85		Yes	14.7	J	Yes	14.7	J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	44.4	J	Yes	44.5	J	Yes	44.5	J	Yes	44.5		Yes	5.38	J	Yes	5.39	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	14.7	J	Yes	14.8	J	Yes	14.8	J	Yes	14.8		Yes	1.63	J	Yes	1.71	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	20.8	J	Yes	20.9	J	Yes	20.9	J	Yes	20.8		Yes	3.25	J	Yes	3.28	J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	24	J	Yes	24.1	J	Yes	24.2	J	Yes	24		Yes	4.58	J	Yes	4.59	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

					Total TEQ-Fish (ND=DL)			Total TEQ-Fish (KM)			Total TEQ-Mammal			Total TEQ-Mammal (ND=0.5DL)			Total TEQ-Mammal (ND=DL)			Total TEQ-Mammal (KM)			Total HpCDD			Total HxCDD	
					pg/g			ng/kg			pg/g			pg/g			pg/g			ng/kg			ng/kg			ng/kg	
Species	Tissue Type	Event	Reach	Field Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	1.9	J	Yes	1.89		Yes	11.1	J	Yes	11.2	J	Yes	11.4	J	Yes	11.1		Yes	9.37		Yes	2.3	EMPC-J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	1.95	J	Yes	1.92		Yes	10.1	J	Yes	10.2	J	Yes	10.3	J	Yes	10.1		Yes	1.47		Yes	2.1	EMPC-J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	2.07	J	Yes	2.04		Yes	11	J	Yes	11.2	J	Yes	11.3	J	Yes	11.1		Yes	2.19		Yes	2.28	EMPC-J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	2.49	J	Yes	2.46		Yes	13.9	J	Yes	14	J	Yes	14.2	J	Yes	13.9		Yes	1.76		Yes	2.68	J
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	2.49	J	Yes	2.46		Yes	14.5	J	Yes	14.7	J	Yes	14.9	J	Yes	14.6		Yes	1.9		Yes	1.93	EMPC-J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	1.88	J	Yes	1.86		Yes	7.41	J	Yes	7.54	J	Yes	7.66	J	Yes	7.46		Yes	3.31		Yes	3.06	EMPC-J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	1.72	J	Yes	1.7		Yes	9.16	J	Yes	9.26	J	Yes	9.37	J	Yes	9.19		Yes	1.46		Yes	1.82	EMPC-J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	1.79	J	Yes	1.53		Yes	12.9	J	Yes	13.2	J	Yes	13.5	J	Yes	13		Yes	1.19		Yes	1.23	J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	2.53	J	Yes	2.5		Yes	13.9	J	Yes	14.1	J	Yes	14.3	J	Yes	14		Yes	1.36		Yes	2.08	EMPC-J
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	2.33	J	Yes	2.31		Yes	9.52	J	Yes	9.59	J	Yes	9.67	J	Yes	9.55		Yes	2.06		Yes	1.86	J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	1.62	J	Yes	1.48		Yes	12.6	J	Yes	12.7	J	Yes	12.9	J	Yes	12.6		Yes	0.735	EMPC-J	Yes	1.4	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	1.56	J	Yes	1.41		Yes	9.3	J	Yes	9.52	J	Yes	9.74	J	Yes	9.35		Yes	1.11		Yes	1.64	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	2.61	J	Yes	2.58		Yes	15.7	J	Yes	15.9	J	Yes	16	J	Yes	15.8		Yes	2.34		Yes	5.58	EMPC-J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	2.79	J	Yes	2.76		Yes	20.5	J	Yes	20.8	J	Yes	21.1	J	Yes	20.6		Yes	1.71		Yes	4.26	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	2.17	J	Yes	2.14		Yes	11.6	J	Yes	11.8	J	Yes	12.1	J	Yes	11.7		Yes	1.3	EMPC-J	Yes	1.82	EMPC-J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	2.53	J	Yes	2.5		Yes	9.39	J	Yes	9.53	J	Yes	9.68	J	Yes	9.44		Yes	3.12		Yes	7.55	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	2.6	J	Yes	2.55		Yes	13.7	J	Yes	14	J	Yes	14.2	J	Yes	13.8		Yes	1.62		Yes	7.65	
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	1.58	J	Yes	1.45		Yes	9.48	J	Yes	9.71	J	Yes	9.94	J	Yes	9.53		Yes	1.03		Yes	3.24	EMPC-J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	2.74	J	Yes	2.71		Yes	15.2	J	Yes	15.4	J	Yes	15.6	J	Yes	15.2		Yes	1.08		Yes	2.36	EMPC-J
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	3.18	J	Yes	3.16		Yes	13.4	J	Yes	13.5	J	Yes	13.6	J	Yes	13.5		Yes	2.36		Yes	2.68	
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	1.24	J	Yes	1.21		Yes	6.46	J	Yes	6.59	J	Yes	6.72	J	Yes	6.5		Yes	1.04		Yes	1.29	J
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	3.77	J	Yes	3.74		Yes	15.5	J	Yes	15.7	J	Yes	15.9	J	Yes	15.6		Yes	3.53		Yes	5.16	EMPC-J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	1.04	J	Yes	0.545		Yes	1.79	J	Yes	3.27	J	Yes	4.75	J	Yes	3.48		Yes	0.486	EMPC-J	Yes	0.573	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	0.541	J	Yes	0.285		Yes	0.834	J	Yes	1.25	J	Yes	1.67	J	Yes	0.902		Yes	0.486		Yes	0.27	EMPC-J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	1.22	J	Yes	1.02		Yes	6.01	J	Yes	6.18	J	Yes	6.35	J	Yes	6.06		Yes	0.808		Yes	0.732	J
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	3.1	J	Yes	3.07		Yes	13.7	J	Yes	13.9	J	Yes	14	J	Yes	13.8		Yes	3.54		Yes	4.24	EMPC-J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	1.77	J	Yes	1.7		Yes	11.8	J	Yes	11.9	J	Yes	12.1	J	Yes	11.8		Yes	5.43	EMPC-J	Yes	1.89	EMPC-J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	1.76	J	Yes	1.68		Yes	9.72	J	Yes	9.87	J	Yes	10	J	Yes	9.74		Yes	1.3		Yes	1.88	EMPC-J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	2.33	J	Yes	2.3		Yes	13.2	J	Yes	13.4	J	Yes	13.5	J	Yes	13.3		Yes	2.26		Yes	3.84	EMPC-J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	2.62	J	Yes	2.59		Yes	16.9	J	Yes	17	J	Yes	17.3	J	Yes	16.9		Yes	1.74		Yes	3.39	J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	2.33	J	Yes	2.3		Yes	13	J	Yes	13.2	J	Yes	13.5	J	Yes	13.1		Yes	1.6	EMPC-J	Yes	1.87	EMPC-J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	2.14	J	Yes	2.12		Yes	8.2	J	Yes	8.34	J	Yes	8.47	J	Yes	8.25		Yes	3.23		Yes	4.86	EMPC-J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	2.12	J	Yes	2.08		Yes	11.2	J	Yes	11.4	J	Yes	11.5	J	Yes	11.3		Yes	1.53		Yes	4.44	EMPC-J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	1.69	J	Yes	1.49		Yes	11.3	J	Yes	11.6	J	Yes	11.9	J	Yes	11.4		Yes	1.12		Yes	2.15	EMPC-J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	2.62	J	Yes	2.59		Yes	14.4	J	Yes	14.6	J	Yes	14.8	J	Yes	14.5		Yes	1.24		Yes	2.2	EMPC-J
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	2.74	J	Yes	2.72		Yes	11.4	J	Yes	11.5	J	Yes	11.6	J	Yes	11.5		Yes	2.21		Yes	2.26	J
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	0.688	J	Yes	0.676		Yes	4.39	J	Yes	4.48	J	Yes	4.56	J	Yes	4.42		Yes	0.836		Yes	0.214	UJ
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	0.511	J	Yes	0.333		Yes	1.54	J	Yes	1.69	J	Yes	1.84	J	Yes	1.57		Yes	0.134	EMPC-J	Yes	0.262	EMPC-J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	0.378	J	Yes	0.212		Yes	0.78	J	Yes	0.921	J	Yes	1.06	J	Yes	0.805		Yes	0.107	U	No	0.0925	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	0.42		Yes	0.169		Yes	0.581		Yes	0.769		Yes	0.956		Yes	0.607		Yes	0.121	U	No	0.114	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	0.528	J	Yes	0.464		Yes	1.61	J	Yes	1.65	J	Yes	1.69	J	Yes	1.63		Yes	0.299	EMPC-J	Yes	0.352	J
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	0.345		Yes	0.136		Yes	0.386		Yes	0.544		Yes	0.702		Yes	0.405		Yes	0.0794	U	No	0.0973	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	0.344		Yes	0.12		Yes	0.152		Yes	0.311		Yes	0.47		Yes	0.164		Yes	0.107	U	No	0.0889	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	3.35	J	Yes	3.32		Yes	11.6	J	Yes	11.8	J	Yes	12.1	J	Yes	11.7		Yes	3.1		Yes	1.86	EMPC-J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	1.43	J	Yes	1.35		Yes	4.72	J	Yes	4.83	J	Yes	4.95	J	Yes	4.76		Yes	4.47		Yes	1.26	EMPC-J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	2.63	J	Yes	2.47		Yes	7.69	J	Yes	7.88	J	Yes	8.08	J	Yes	7.76		Yes	1.75		Yes	1.73	EMPC-J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	2.52	J	Yes	2.51		Yes	7.06	J	Yes	7.23	J	Yes	7.4	J	Yes	7.13		Yes	15		Yes	4.25	EMPC-J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	2.14	J	Yes	1.99		Yes	9.54	J	Yes	9.78	J	Yes	10	J	Yes	9.62		Yes	2.93		Yes	1.53	J
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	1.54	J	Yes	1.39		Yes	4.86	J	Yes	5	J	Yes	5.14	J	Yes	4.92		Yes	2.26		Yes	1.63	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	11	J	Yes	10.9		Yes	35	J	Yes	35.8	J	Yes	36.6	J	Yes	35.2		Yes	8.84		Yes	7.5	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	6.07	J	Yes	6.07		Yes	18.8	J	Yes	19.1	J	Yes	19.4	J	Yes	18.9		Yes	6.28		Yes	3.86	J
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	6.65	J	Yes	6.64		Yes	21.1	J	Yes	21.8	J	Yes	22.5	J	Yes	21.3		Yes	6.94		Yes	5.44	EMPC-J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	11.8	J	Yes	11.8		Yes	117	J	Yes	117	J	Yes	118	J	Yes	117		Yes	5.76		Yes	4.25	J
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	9.29	J	Yes	9.29		Yes	41.1	J	Yes	41.9	J	Yes	42.6	J	Yes	41.3		Yes	13.3		Yes	6.93	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	2.49	J	Yes	2.48		Yes	8.71	J	Yes	8.76	J	Yes	8.82	J	Yes	8.73		Yes	1.05		Yes	1.04	EMPC-J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	5.82	J	Yes	5.81		Yes	20.2	J	Yes	20.3	J	Yes	20.4	J	Yes	20.2		Yes	4.25		Yes	3.61	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	7.47	J	Yes	7.47		Yes	31.6	J	Yes	31.7	J	Yes	31.8	J	Yes	31.6		Yes	7.14		Yes	5.06	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	2.59	J	Yes	2.59		Yes	8.97	J	Yes	9.02	J	Yes	9.07	J	Yes	9		Yes	2.05		Yes	1.58	EMPC-J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	1.98	J	Yes	1.97		Yes	7	J	Yes	7.06	J	Yes	7.12	J	Yes	7.04		Yes	2.9		Yes	1.59	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	1.82	J	Yes	1.81		Yes	7.81	J	Yes	7.9	J	Yes	7.98	J	Yes	7.84		Yes	1.27		Yes	0.989	EMPC-J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	4.91	J	Yes	4.9		Yes	18.2	J	Yes	18.3	J	Yes	18.4	J	Yes	18.3		Yes	2.97		Yes	3.42	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	3.36	J	Yes	3.35		Yes	14.5	J	Yes	14.6	J	Yes	14.7	J	Yes	14.5		Yes	1.62		Yes	1.82	J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	3.01	J	Yes	3		Yes	11.5	J	Yes	11.6	J	Yes	11.7	J	Yes	11.5		Yes	2.96		Yes	1.91	EMPC-J
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	6.1	J	Yes	6.09		Yes	21.1	J	Yes	21.2	J	Yes	21.3	J	Yes	21.2		Yes	8.56		Yes	4.36	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	9.12	J	Yes	9.11		Yes	40.5	J	Yes	41.5	J	Yes	42.4	J	Yes	40.9		Yes	9.7		Yes	6.71	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	3.97	J	Yes	3.97		Yes	12.6	J	Yes	12.9	J	Yes	13.1	J	Yes	12.7		Yes	4.04		Yes	2.54	EMPC-J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	7.26	J	Yes	7.24		Yes	25.8	J	Yes	26.3	J	Yes	26.9	J	Yes	25.9		Yes	11		Yes	5.01	J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	4.62	J	Yes	4.62		Yes	11.1	J	Yes	11.3	J	Yes	11.5	J	Yes	11.2		Yes	6.57		Yes	4.05	EMPC-J
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	8.93	J	Yes	8.91		Yes	37.1	J	Yes	37.7	J	Yes	38.3	J	Yes	37.4		Yes	12.7		Yes	5.8	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	9.19	J	Yes	9.12		Yes	29.8	J	Yes	30.4	J	Yes	30.9	J	Yes	30		Yes	7.23		Yes	6.14	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	4.99	J	Yes	4.99		Yes	15.7	J	Yes	16	J	Yes	16.2	J	Yes	15.8		Yes	4.96		Yes	3.15	EMPC-J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	6.1	J	Yes	6.09		Yes	20.2	J	Yes	20.7	J	Yes	21.2	J	Yes	20.4		Yes	5.69		Yes	4.81	EMPC-J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	9.18	J	Yes	9.18		Yes	85.2	J	Yes	85.3	J	Yes	86	J	Yes	85.2		Yes	4.48		Yes	3.5	J
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	7.25	J	Yes	7.25		Yes	31.5	J	Yes	32.1	J	Yes	32.6	J	Yes	31.6		Yes	9.94		Yes	5.3	EMPC-J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	9.59	J	Yes	9.58		Yes	32.8	J	Yes	33.3	J	Yes	33.7	J	Yes	33		Yes	3.29		Yes	3.84	EMPC-J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	15.8	J	Yes	15.8		Yes	70.1	J	Yes	70.8	J	Yes	71.6	J	Yes	70.2		Yes	1.82		Yes	5.3	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	14.7	J	Yes	14.7		Yes	60.2	J	Yes	60.7	J	Yes	61.3	J	Yes	60.3		Yes	2.3		Yes	5.7	J
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	5.4	J	Yes	5.39		Yes	23.9	J	Yes	24.2	J	Yes	24.5	J	Yes	24		Yes	1.75	EMPC-J	Yes	3.12	EMPC-J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	1.79	J	Yes	1.65		Yes	6.06	J	Yes	6.16	J	Yes	6.27	J	Yes	6.09		Yes	0.375	EMPC-J	Yes	0.309	EMPC-J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	3.3	J	Yes	3.26		Yes	15.1	J	Yes	15.2	J	Yes	15.3	J	Yes	15.1		Yes	0.267	EMPC-J	Yes	0.868	EMPC-J
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	4.61	J	Yes	4.59		Yes	16.6	J	Yes	16.7	J	Yes	16.8	J	Yes	16.6		Yes	0.49		Yes	1.47	EMPC-J

BERA Tissue Chemistry Data from Above Dundee Dam

					Total PeCDD			Total TCDD			Total HpCDF			Total HxCDF			Total PeCDF			Total TCDF		
					ng/kg			ng/kg			ng/kg			ng/kg			ng/kg			ng/kg		
Species	Tissue Type	Event	Reach	Field Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	Yes	0.378	EMPC-J	Yes	0.155	EMPC-J	Yes	0.867	EMPC-J	Yes	0.579	EMPC-J	Yes	0.249	J	Yes	0.263	EMPC-J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	Yes	0.516		Yes	0.203	EMPC-J	Yes	0.638	J	Yes	0.473	EMPC-J	Yes	0.172	EMPC-J	Yes	0.22		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	Yes	0.566		Yes	0.185	EMPC-J	Yes	1.17	EMPC-J	Yes	0.55	EMPC-J	Yes	0.16	J	Yes	0.406	EMPC-J	Yes
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	Yes	0.554		Yes	0.343		Yes	0.809	J	Yes	0.781	EMPC-J	Yes	0.333	J	Yes	0.181	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	Yes	0.552		Yes	0.439		Yes	0.785		Yes	0.749	EMPC-J	Yes	0.269	EMPC-J	Yes	0.111	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	Yes	0.634	EMPC-J	Yes	0.138	EMPC-J	Yes	1.15	J	Yes	0.742	EMPC-J	Yes	0.327	J	Yes	0.117		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	Yes	0.552	EMPC-J	Yes	0.139		Yes	0.581	J	Yes	0.565	EMPC-J	Yes	0.262	J	Yes	0.104	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	Yes	0.366		Yes	0.168	U	No	0.316	EMPC-J	Yes	0.122	U	No	0.115	U	No	0.127	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	Yes	0.687		Yes	0.336	EMPC-J	Yes	0.405	EMPC-J	Yes	0.532	EMPC-J	Yes	0.303	EMPC-J	Yes	0.628		Yes
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	Yes	0.771	EMPC-J	Yes	0.377	EMPC-J	Yes	0.689		Yes	1.26	EMPC-J	Yes	0.612	J	Yes	0.0923	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	Yes	0.265	EMPC-J	Yes	0.135	U	No	0.473		Yes	0.467	EMPC-J	Yes	0.112	EMPC-J	Yes	0.182		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	Yes	0.373		Yes	0.148	U	No	0.527		Yes	0.486	EMPC-J	Yes	0.141	EMPC-J	Yes	0.222		Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	Yes	0.621	EMPC-J	Yes	0.288		Yes	0.857		Yes	0.81	EMPC-J	Yes	0.475	EMPC-J	Yes	3.13	EMPC-J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	Yes	0.764	EMPC-J	Yes	0.295	EMPC-J	Yes	0.74		Yes	0.842	EMPC-J	Yes	0.273		Yes	5.52	EMPC-J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	Yes	0.442	EMPC-J	Yes	0.324	EMPC-J	Yes	0.65		Yes	0.678	EMPC-J	Yes	0.315		Yes	1.32	EMPC-J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	Yes	0.958		Yes	0.229	EMPC-J	Yes	1.2		Yes	1.06		Yes	0.337	EMPC-J	Yes	2.66	EMPC-J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	Yes	0.641	EMPC-J	Yes	0.42		Yes	1.01		Yes	0.884	EMPC-J	Yes	1.63		Yes	16.9	EMPC-J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	Yes	0.329	EMPC-J	Yes	0.121	U	No	0.433		Yes	0.472		Yes	0.131	EMPC-J	Yes	0.825	EMPC-J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	Yes	0.679	EMPC-J	Yes	0.383		Yes	0.46		Yes	0.646		Yes	0.309	EMPC-J	Yes	2.37	EMPC-J	Yes
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	Yes	1.16		Yes	0.402	EMPC-J	Yes	0.832		Yes	1.48	EMPC-J	Yes	0.719		Yes	0.423	EMPC-J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	Yes	0.25		Yes	0.197		Yes	0.338		Yes	0.115	EMPC-J	Yes	0.132	J	Yes	0.174	EMPC-J	Yes
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	Yes	1.25		Yes	0.343		Yes	1.13		Yes	1.35		Yes	0.675	J	Yes	0.108	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	Yes	0.228	U	No	0.198	U	No	0.14	EMPC-J	Yes	0.13	U	No	0.141	U	No	0.113	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	Yes	0.131	U	No	0.109	U	No	0.182		Yes	0.0878	U	No	0.0734	U	No	0.0799	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	Yes	0.317	EMPC-J	Yes	0.149	EMPC-J	Yes	0.334		Yes	0.154	U	No	0.129	U	No	0.0976	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	Yes	0.876		Yes	0.357		Yes	1.46		Yes	1.39	EMPC-J	Yes	0.669	J	Yes	0.129	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	Yes	0.326	EMPC-J	Yes	0.115	EMPC-J	Yes	0.687	EMPC-J	Yes	0.528	EMPC-J	Yes	0.187	EMPC-J	Yes	0.226	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	Yes	0.447		Yes	0.141	EMPC-J	Yes	0.585	J	Yes	0.479	EMPC-J	Yes	0.157	EMPC-J	Yes	0.221		Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	Yes	0.592	EMPC-J	Yes	0.234	EMPC-J	Yes	1.02	EMPC-J	Yes	0.673	EMPC-J	Yes	0.309	EMPC-J	Yes	1.69	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	Yes	0.648	EMPC-J	Yes	0.321	EMPC-J	Yes	0.778	J	Yes	0.808	EMPC-J	Yes	0.306	J	Yes	2.52	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	Yes	0.497	EMPC-J	Yes	0.381	EMPC-J	Yes	0.717		Yes	0.713	EMPC-J	Yes	0.292	EMPC-J	Yes	0.689	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	Yes	0.764	EMPC-J	Yes	0.174	EMPC-J	Yes	1.17	J	Yes	0.87	EMPC-J	Yes	0.331	EMPC-J	Yes	1.14	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	Yes	0.592	EMPC-J	Yes	0.265		Yes	0.774	J	Yes	0.709	EMPC-J	Yes	0.878	J	Yes	7.63	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	Yes	0.349	EMPC-J	Yes	0.0732	U	No	0.37	EMPC-J	Yes	0.25		Yes	0.0912	EMPC-J	Yes	0.413	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	Yes	0.684	EMPC-J	Yes	0.355	EMPC-J	Yes	0.428	EMPC-J	Yes	0.579	EMPC-J	Yes	0.305	EMPC-J	Yes	1.35	EMPC-J	Yes
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	Yes	0.961	EMPC-J	Yes	0.389	EMPC-J	Yes	0.759		Yes	1.37	EMPC-J	Yes	0.664	J	Yes	0.23	EMPC-J	Yes
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	No	0.104	EMPC-J	Yes	0.264	U	No	0.226	EMPC-J	Yes	0.117		Yes	0.264		Yes	0.585		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	Yes	0.107	U	No	0.104	U	No	0.0856	U	No	0.108		Yes	0.192	J	Yes	0.234	EMPC-J	Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	No	0.0843	U	No	0.0998	U	No	0.0817	U	No	0.072	U	No	0.108	EMPC-J	Yes	0.0901	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	No	0.12	U	No	0.111	U	No	0.104	U	No	0.0895	U	No	0.0866	U	No	0.0901	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	Yes	0.136		Yes	0.23	EMPC-J	Yes	0.176		Yes	0.106	EMPC-J	Yes	0.369	J	Yes	0.385		Yes
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	No	0.0945	U	No	0.105		Yes	0.0756	U	No	0.0685	U	No	0.0621	U	No	0.0893	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	No	0.103	U	No	0.103	U	No	0.116	U	No	0.0784	U	No	0.084	U	No	0.0882	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	Yes	0.626	EMPC-J	Yes	1.3		Yes	0.957	EMPC-J	Yes	1.15	EMPC-J	Yes	1.56	EMPC-J	Yes	0.478		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	Yes	0.381	EMPC-J	Yes	0.852		Yes	1.95	J	Yes	1.59	EMPC-J	Yes	2.18	EMPC-J	Yes	1.22	EMPC-J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	Yes	0.51	EMPC-J	Yes	0.959		Yes	0.56	J	Yes	1.76	EMPC-J	Yes	3.01	EMPC-J	Yes	1.22	EMPC-J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	Yes	1.01	EMPC-J	Yes	1.03	EMPC-J	Yes	5.18	EMPC-J	Yes	4.38	EMPC-J	Yes	5.16	EMPC-J	Yes	3.32	EMPC-J	Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	Yes	0.462	EMPC-J	Yes	0.474	EMPC-J	Yes	0.765	J	Yes	1.05	J	Yes	1.31	EMPC-J	Yes	0.477		Yes
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	Yes	0.456	EMPC-J	Yes	0.407	EMPC-J	Yes	0.865	J	Yes	1.67	EMPC-J	Yes	1.75	EMPC-J	Yes	0.907	EMPC-J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	Yes	2.06	EMPC-J	Yes	3.1	EMPC-J	Yes	2.55	J	Yes	5.6		Yes	11	J	Yes	8.83	EMPC-J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	Yes	1.17	EMPC-J	Yes	1.66	EMPC-J	Yes	1.69	EMPC-J	Yes	3.52	EMPC-J	Yes	6.01	EMPC-J	Yes	5.05		Yes
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	Yes	1.31	EMPC-J	Yes	1.79	EMPC-J	Yes	1.83	J	Yes	2.68	EMPC-J	Yes	10.1	J	Yes	6.52	EMPC-J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	Yes	1.71	EMPC-J	Yes	1.77	EMPC-J	Yes	1.91	J	Yes	3.04	EMPC-J	Yes	7.37	J	Yes	5.78	EMPC-J	Yes
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	Yes	2.12	EMPC-J	Yes	1.78	EMPC-J	Yes	3.62	J	Yes	5	EMPC-J	Yes	8.63	J	Yes	4.95	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	Yes	0.485		Yes	0.82		Yes	0.241	EMPC-J	Yes	0.664	EMPC-J	Yes	0.906	J	Yes	1.38	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	Yes	1.25	EMPC-J	Yes	1.42		Yes	0.824	J	Yes	2.26	EMPC-J	Yes	4.32	EMPC-J	Yes	4.5	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	Yes	1.55	EMPC-J	Yes	1.61		Yes	1.36	J	Yes	2.82		Yes	4.43	J	Yes	4.62	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	Yes	0.498	EMPC-J	Yes	0.724	EMPC-J	Yes	0.543	J	Yes	1.12	EMPC-J	Yes	1.98	EMPC-J	Yes	2.11	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	Yes	0.432	EMPC-J	Yes	0.344	EMPC-J	Yes	0.706	J	Yes	0.964	EMPC-J	Yes	1.04	J	Yes	0.951		Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	Yes	0.394	EMPC-J	Yes	0.352	EMPC-J	Yes	0.251	EMPC-J	Yes	0.55	EMPC-J	Yes	1.33	EMPC-J	Yes	1.35	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	Yes	1.01	EMPC-J	Yes	1.17	EMPC-J	Yes	0.842	EMPC-J	Yes	2.08	EMPC-J	Yes	4.28	EMPC-J	Yes	4.94	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	Yes	0.749	EMPC-J	Yes	0.638	EMPC-J	Yes	0.33	EMPC-J	Yes	0.969	EMPC-J	Yes	2.81	EMPC-J	Yes	2.14	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	Yes	0.753	EMPC-J	Yes	0.566		Yes	0.768		Yes	1.16	EMPC-J	Yes	1.23	EMPC-J	Yes	1.46	EMPC-J	Yes
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	Yes	1.6	EMPC-J	Yes	1.29		Yes	1.86	EMPC-J	Yes	2.14	EMPC-J	Yes	5.88	EMPC-J	Yes	5.07	EMPC-J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	Yes	1.8	EMPC-J	Yes	1.99		Yes	2.48	EMPC-J	Yes	4.38	EMPC-J	Yes	8.53	EMPC-J	Yes	4.47		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	Yes	0.795	EMPC-J	Yes	1.01		Yes	1.17	EMPC-J	Yes	1.92	EMPC-J	Yes	2.23	EMPC-J	Yes	2.55		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	Yes	1.41	EMPC-J	Yes	1.81	EMPC-J	Yes	2.48	EMPC-J	Yes	3.65	EMPC-J	Yes	6.93	EMPC-J	Yes	4.83		Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	Yes	1.18		Yes	1.05		Yes	2	J	Yes	3.15		Yes	3.92	EMPC-J	Yes	5.96	EMPC-J	Yes
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	Yes	1.7	EMPC-J	Yes	2.09	EMPC-J	Yes	2.75	J	Yes	4.25	EMPC-J	Yes	7.8	EMPC-J	Yes	4.8		Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	Yes	1.78	EMPC-J	Yes	2.51	EMPC-J	Yes	1.95	J	Yes	4.43	EMPC-J	Yes	8.66	EMPC-J	Yes	7.31	EMPC-J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	Yes	0.961	EMPC-J	Yes	1.37	EMPC-J	Yes	1.33	EMPC-J	Yes	2.77	EMPC-J	Yes	4.76	EMPC-J	Yes	4.14	EMPC-J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	Yes	1.22	EMPC-J	Yes	1.6	EMPC-J	Yes	1.52	EMPC-J	Yes	2.49	EMPC-J	Yes	8.27	EMPC-J	Yes	6.02	EMPC-J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	Yes	1.41	EMPC-J	Yes	1.42	EMPC-J	Yes	1.42	EMPC-J	Yes	2.4	EMPC-J	Yes	5.96	EMPC-J	Yes	4.65	EMPC-J	Yes
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	Yes	1.68	EMPC-J	Yes	1.39	EMPC-J	Yes	2.69	J	Yes	3.75	EMPC-J	Yes	6.23	EMPC-J	Yes	3.82	EMPC-J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	Yes	1.58	EMPC-J	Yes	4.3		Yes	0.896	EMPC-J	Yes	2.37	EMPC-J	Yes	4.32	EMPC-J	Yes	2.3	EMPC-J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	Yes	2.9	EMPC-J	Yes	6.51		Yes	0.371	J	Yes	1.12	EMPC-J	Yes	4.52	EMPC-J	Yes	0.581	EMPC-J	Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	Yes	2.85	EMPC-J	Yes	6.1		Yes	0.419	J	Yes	1.44	EMPC-J	Yes	4.81	J	Yes	0.794		Yes
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	Yes	1.39	EMPC-J	Yes	1.08		Yes	0.418	J	Yes	1.17	EMPC-J	Yes	2.56	J	Yes	0.486		Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	Yes	0.234	EMPC-J	Yes	0.816		Yes	0.168	U	No	0.116	U	No	0.392	EMPC-J	Yes	0.281	EMPC-J	Yes
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	Yes	0.584	EMPC-J	Yes	1.4		Yes	0.147	U	No	0.0936	U	No	0.58	EMPC-J	Yes	0.105	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	Yes	1.01	EMPC-J	Yes	1.95		Yes	0.123		Yes	0.214	EMPC-J	Yes	1.12	J	Yes	0.108	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	1,2,3,4,6,7,8-HpCDD ng/kg			1,2,3,4,7,8-HxCDD ng/kg			1,2,3,6,7,8-HxCDD ng/kg			1,2,3,7,8,9-HxCDD ng/kg			1,2,3,7,8-PeCDD ng/kg		
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.741	J	Yes	0.298	J	Yes	0.914	J	Yes	0.265	J	Yes	0.68	EMPC-J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	2.44	EMPC-J	Yes	0.575	EMPC-J	Yes	2.02	EMPC-J	Yes	0.234	U	No	1.29	EMPC-J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	1.22	EMPC-J	Yes	0.69	EMPC-J	Yes	2.8	EMPC-J	Yes	0.271	J	Yes	2.21	EMPC-J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	1.59	J	Yes	0.858	J	Yes	3.02	J	Yes	0.623	EMPC-J	Yes	2.33	EMPC-J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	1.37	EMPC-J	Yes	0.517	J	Yes	1.68	J	Yes	0.269	J	Yes	1.19	EMPC-J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	3.07		Yes	1.05	J	Yes	2.2	J	Yes	0.591	J	Yes	2.05	EMPC-J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.157	U	No	0.133	U	No	0.159	J	Yes	0.148	U	No	0.227	EMPC-J	Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	1.68		Yes	0.592	J	Yes	1.25	J	Yes	0.35	J	Yes	1.2	EMPC-J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.352	EMPC-J	Yes	0.0551	U	No	0.0507	UJ	No	0.0912	UJ	No	0.0627	U	No
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	1.31	J	Yes	0.245	J	Yes	0.601	J	Yes	0.254	UJ	No	0.57	EMPC-J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	0.371	J	Yes	0.132	J	Yes	0.323	EMPC-J	Yes	0.156	EMPC-J	Yes	0.618	EMPC-J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	0.298	J	Yes	0.0878	U	No	0.327	J	Yes	0.136	EMPC-J	Yes	0.648	EMPC-J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	0.301	EMPC-J	Yes	0.0957	EMPC-J	Yes	0.387	J	Yes	0.102	EMPC-J	Yes	0.716	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.0855	U	No	0.0737	U	No	0.071	U	No	0.0845	U	No	0.072	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.152	U	No	0.147	U	No	0.132	U	No	0.16	U	No	0.148	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.11	J	Yes	0.0543	U	No	0.0539	U	No	0.0639	U	No	0.0581	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	0.244	J	Yes	0.0953	J	Yes	0.212	EMPC-J	Yes	0.112	EMPC-J	Yes	0.393	EMPC-J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	0.207	J	Yes	0.0561	U	No	0.22	J	Yes	0.113	EMPC-J	Yes	0.412	EMPC-J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	0.22	EMPC-J	Yes	0.0668	EMPC-J	Yes	0.235	J	Yes	0.0724	EMPC-J	Yes	0.426	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	3.14		Yes	0.492	J	Yes	0.649	J	Yes	0.244	UJ	No	0.724	EMPC-J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	1.28	J	Yes	0.383	J	Yes	0.875	J	Yes	0.226	UJ	No	1.03	EMPC-J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	1.17	J	Yes	0.238	J	Yes	0.504	J	Yes	0.162	UJ	No	0.771	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	1.54	J	Yes	0.316	J	Yes	0.608	J	Yes	0.215	UJ	No	0.662	EMPC-J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	2.47		Yes	0.495	J	Yes	0.961	J	Yes	0.219	UJ	No	1.21	EMPC-J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	1.93	J	Yes	0.619	J	Yes	1.07	J	Yes	0.36	UJ	No	1.31	EMPC-J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	2.08	J	Yes	0.452	J	Yes	0.76	J	Yes	0.229	UJ	No	0.931	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	1.73	J	Yes	0.347	J	Yes	0.496	J	Yes	0.165	UJ	No	0.599	EMPC-J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.121	U	No	0.0816	U	No	0.0775	UJ	No	0.0926	U	No	0.111	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.088	J	Yes	0.043	U	No	0.0436	UJ	No	0.0721	U	No	0.0555	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.0644	U	No	0.0537	U	No	0.0522	UJ	No	0.111	U	No	0.0688	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.0683	U	No	0.0668	U	No	0.0616	UJ	No	0.0805	U	No	0.0673	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.0907	EMPC-J	Yes	0.0571	U	No	0.0569	UJ	No	0.0695	U	No	0.0572	EMPC-J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.146	J	Yes	0.0708	U	No	0.0656	UJ	No	0.0746	U	No	0.0636	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.14	J	Yes	0.0905	U	No	0.0841	UJ	No	0.0956	U	No	0.117	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.154	J	Yes	0.0513	U	No	0.0723	EMPC-J	Yes	0.06	U	No	0.11	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	1.99		Yes	0.323	J	Yes	0.42	J	Yes	0.0936	UJ	No	0.473	EMPC-J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	0.813	J	Yes	0.241	J	Yes	0.541	J	Yes	0.0828	UJ	No	0.637	EMPC-J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	0.731	J	Yes	0.156	J	Yes	0.32	J	Yes	0.0712	UJ	No	0.5	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	0.924	J	Yes	0.2	J	Yes	0.372	J	Yes	0.08	UJ	No	0.405	EMPC-J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	1.53	EMPC-J	Yes	0.31	J	Yes	0.592	J	Yes	0.0799	UJ	No	0.753	EMPC-J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	1.21	J	Yes	0.384	J	Yes	0.653	J	Yes	0.123	UJ	No	0.796	EMPC-J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	1.27	J	Yes	0.281	J	Yes	0.458	J	Yes	0.0865	UJ	No	0.589	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	1.07	J	Yes	0.213	J	Yes	0.319	EMPC-J	Yes	0.0606	UJ	No	0.395	EMPC-J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	5.39		Yes	0.436	EMPC-J	Yes	0.784	J	Yes	0.297	UJ	No	0.632	EMPC-J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	2.63		Yes	0.433	J	Yes	0.697	J	Yes	0.295	UJ	No	0.672	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	1.74	J	Yes	0.18	J	Yes	0.237	J	Yes	0.143	UJ	No	0.254	EMPC-J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	2.31	J	Yes	0.78	J	Yes	0.897	J	Yes	0.257	UJ	No	0.851	EMPC-J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	1.86	J	Yes	0.529	J	Yes	0.761	J	Yes	0.248	UJ	No	0.701	EMPC-J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.183	J	Yes	0.0597	U	No	0.0882	EMPC-J	Yes	0.08	U	No	0.0941	EMPC-J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.307	J	Yes	0.12	J	Yes	0.127	J	Yes	0.0889	U	No	0.177	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.165	EMPC-J	Yes	0.072	U	No	0.067	UJ	No	0.0816	U	No	0.112	EMPC-J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.325	J	Yes	0.0928	U	No	0.135	J	Yes	0.107	U	No	0.163	EMPC-J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.201	J	Yes	0.0786	U	No	0.0719	UJ	No	0.0927	U	No	0.0801	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	3.07	J	Yes	0.255	EMPC-J	Yes	0.474	EMPC-J	Yes	0.1	UJ	No	0.392	EMPC-J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	1.8	J	Yes	0.321	J	Yes	0.492	J	Yes	0.111	UJ	No	0.494	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	1.06	EMPC-J	Yes	0.118	J	Yes	0.149	J	Yes	0.0582	UJ	No	0.193	EMPC-J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	1.67	J	Yes	0.543	J	Yes	0.651	J	Yes	0.104	UJ	No	0.629	EMPC-J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	1.17	J	Yes	0.326	J	Yes	0.461	J	Yes	0.0919	UJ	No	0.427	EMPC-J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	2,3,7,8-TCDD ng/kg			OCDD ng/kg			1,2,3,4,6,7,8-HpCDF ng/kg			1,2,3,4,7,8,9-HpCDF ng/kg			1,2,3,4,7,8-HxCDF ng/kg			1,2,3,6,7,8-HxCDF ng/kg			1,2,3,7,8,9-HxCDF ng/kg			1,2,3,7,8-PeCD ng/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.477	EMPC-J	Yes	0.973	J	Yes	0.16	J	Yes	0.196	U	No	0.163	J	Yes	0.107	EMPC-J	Yes	0.101	U	No	0.131	U
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	3.34		Yes	4.28	J	Yes	0.604	EMPC-J	Yes	0.0543	U	No	0.403	J	Yes	0.384	J	Yes	0.0403	U	No	0.519	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	4.99		Yes	2.25	J	Yes	0.278	J	Yes	0.0769	U	No	0.228	J	Yes	0.255	J	Yes	0.0367	U	No	0.134	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	4.79		Yes	2.94	J	Yes	0.336	J	Yes	0.0545	U	No	0.283	EMPC-J	Yes	0.284	J	Yes	0.0386	U	No	0.0888	U
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	0.911	EMPC-J	Yes	2.04	J	Yes	0.346	J	Yes	0.0678	U	No	0.29	J	Yes	0.278	EMPC-J	Yes	0.0411	U	No	0.127	J
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	2.95		Yes	4.66	J	Yes	1.06	J	Yes	0.0962	U	No	0.586	J	Yes	0.688	J	Yes	0.1	U	No	1.04	J
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.311	J	Yes	0.236	U	No	0.112	J	Yes	0.146	U	No	0.142	U	No	0.133	U	No	0.239	U	No	0.122	U
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	1.72	J	Yes	2.54	J	Yes	0.618	J	Yes	0.0597	U	No	0.346	J	Yes	0.398	J	Yes	0.0824	U	No	0.584	J
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.0814	EMPC-J	Yes	3.16	J	Yes	0.156	J	Yes	0.106	U	No	0.0555	U	No	0.0461	U	No	0.0745	U	No	0.0405	U
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	0.91		Yes	4	J	Yes	0.39	J	Yes	0.0434	U	No	0.167	J	Yes	0.2	J	Yes	0.0595	U	No	0.296	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	1.52		Yes	1.11	EMPC-J	Yes	0.47	J	Yes	0.101	U	No	0.104	EMPC-J	Yes	0.247	J	Yes	0.129	U	No	0.29	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	1.41		Yes	0.67	EMPC-J	Yes	0.257	J	Yes	0.105	U	No	0.144	J	Yes	0.199	EMPC-J	Yes	0.0952	U	No	0.244	EMPC-J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	1.56		Yes	0.881	J	Yes	0.137	J	Yes	0.0685	U	No	0.119	J	Yes	0.124	J	Yes	0.0984	U	No	0.278	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.074	U	No	0.297	EMPC-J	Yes	0.0483	U	No	0.0801	U	No	0.051	U	No	0.0459	U	No	0.0816	U	No	0.0479	U
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.125	U	No	0.138	U	No	0.0835	U	No	0.116	U	No	0.0994	U	No	0.0926	U	No	0.154	U	No	0.0858	U
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.0709	U	No	0.366	J	Yes	0.0394	U	No	0.0574	U	No	0.044	U	No	0.0394	U	No	0.0615	U	No	0.0453	U
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	0.948		Yes	0.796	EMPC-J	Yes	0.298	J	Yes	0.0465	U	No	0.0737	EMPC-J	Yes	0.161	J	Yes	0.0554	U	No	0.187	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	0.856		Yes	0.423	EMPC-J	Yes	0.169	J	Yes	0.0548	U	No	0.105	J	Yes	0.136	EMPC-J	Yes	0.0597	U	No	0.161	EMPC-J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	0.917		Yes	0.664	J	Yes	0.0875	J	Yes	0.0319	U	No	0.0781	J	Yes	0.08	J	Yes	0.0414	U	No	0.17	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	0.867		Yes	28.8	J	Yes	1.13	J	Yes	0.0846	U	No	0.331	EMPC-J	Yes	0.263	J	Yes	0.0947	U	No	0.324	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	1.32		Yes	3.28	J	Yes	0.497	J	Yes	0.0519	U	No	0.345	J	Yes	0.331	J	Yes	0.0559	U	No	0.502	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	0.784		Yes	8.9	J	Yes	0.446	J	Yes	0.0237	U	No	0.222	J	Yes	0.16	EMPC-J	Yes	0.0338	U	No	0.315	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	0.739		Yes	8.49	J	Yes	0.492	J	Yes	0.0559	U	No	0.212	J	Yes	0.21	EMPC-J	Yes	0.0463	U	No	0.346	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	1.47		Yes	18.5	J	Yes	0.912	J	Yes	0.101	U	No	0.442	J	Yes	0.293	EMPC-J	Yes	0.102	U	No	0.585	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	1.6		Yes	5.83	J	Yes	0.596	J	Yes	0.0623	U	No	0.514	J	Yes	0.434	J	Yes	0.123	U	No	0.824	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	1		Yes	11.7	J	Yes	0.935	J	Yes	0.0639	U	No	0.32	J	Yes	0.304	J	Yes	0.207	U	No	0.452	J
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	0.673		Yes	12.2	J	Yes	0.644	J	Yes	0.0598	U	No	0.266	J	Yes	0.193	J	Yes	0.155	U	No	0.282	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.0832	U	No	0.215	U	No	0.0546	U	No	0.0825	U	No	0.0888	U	No	0.0754	U	No	0.144	U	No	0.0587	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.0801	EMPC-J	Yes	0.217	EMPC-J	Yes	0.0317	U	No	0.0509	U	No	0.0367	U	No	0.033	U	No	0.0496	U	No	0.0356	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.0426	EMPC-J	Yes	0.0892	U	No	0.0323	U	No	0.0509	U	No	0.0395	U	No	0.0354	U	No	0.0598	U	No	0.0285	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.0532	EMPC-J	Yes	0.282	J	Yes	0.0319	U	No	0.0492	U	No	0.0519	U	No	0.0457	U	No	0.0765	U	No	0.0419	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.0815	EMPC-J	Yes	0.331	J	Yes	0.0309	U	No	0.0457	U	No	0.0562	U	No	0.0513	U	No	0.0752	U	No	0.0335	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.0606	U	No	0.186	U	No	0.0503	U	No	0.0752	U	No	0.0699	U	No	0.0613	U	No	0.103	U	No	0.0428	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.0966	EMPC-J	Yes	0.33	EMPC-J	Yes	0.0782	U	No	0.124	U	No	0.0846	U	No	0.0745	U	No	0.126	U	No	0.0599	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.0922	J	Yes	0.332	EMPC-J	Yes	0.0337	U	No	0.052	U	No	0.0422	U	No	0.0393	U	No	0.0649	U	No	0.0409	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	0.557		Yes	18	J	Yes	0.716	J	Yes	0.0419	U	No	0.224	EMPC-J	Yes	0.179	J	Yes	0.0566	U	No	0.214	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	0.834	EMPC-J	Yes	2.08	EMPC-J	Yes	0.308	J	Yes	0.0258	U	No	0.217	J	Yes	0.208	J	Yes	0.0267	U	No	0.312	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	0.498	EMPC-J	Yes	5.48	J	Yes	0.28	J	Yes	0.0171	U	No	0.144	J	Yes	0.105	EMPC-J	Yes	0.0219	U	No	0.199	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	0.459	EMPC-J	Yes	5.13	J	Yes	0.297	J	Yes	0.0266	U	No	0.136	J	Yes	0.133	EMPC-J	Yes	0.0293	U	No	0.213	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	0.92	EMPC-J	Yes	11.3	J	Yes	0.557	J	Yes	0.0396	U	No	0.278	J	Yes	0.187	EMPC-J	Yes	0.0457	U	No	0.36	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	0.969		Yes	3.52	J	Yes	0.367	J	Yes	0.0337	U	No	0.321	J	Yes	0.272	J	Yes	0.0575	U	No	0.501	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	0.621	EMPC-J	Yes	6.92	EMPC-J	Yes	0.559	J	Yes	0.0446	U	No	0.203	J	Yes	0.192	J	Yes	0.0865	U	No	0.275	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	0.431	J	Yes	7.25	EMPC-J	Yes	0.382	J	Yes	0.0283	U	No	0.164	J	Yes	0.121	J	Yes	0.0587	U	No	0.173	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	1.05		Yes	41.5	J	Yes	1.27	J	Yes	0.0941	J	Yes	0.318	J	Yes	0.25	J	Yes	0.0686	J	Yes	0.347	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	0.657		Yes	16.5	J	Yes	1.01	J	Yes	0.0789	U	No	0.272	J	Yes	0.262	J	Yes	0.0574	U	No	0.374	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	0.313	EMPC-J	Yes	14	J	Yes	0.567	J	Yes	0.0664	U	No	0.125	J	Yes	0.106	J	Yes	0.0621	U	No	0.109	EMPC-J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	0.991		Yes	7.15	J	Yes	0.842	J	Yes	0.0825	U	No	0.494	J	Yes	0.276	J	Yes	0.119	U	No	0.456	EMPC-J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	0.558		Yes	4.58	J	Yes	0.575	J	Yes	0.0602	U	No	0.294	J	Yes	0.255	J	Yes	0.0697	U	No	0.13	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.188	EMPC-J	Yes	0.464	J	Yes	0.0514	J	Yes	0.0592	U	No	0.0673	U	No	0.0605	U	No	0.0999	U	No	0.0772	EMPC-J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.146	EMPC-J	Yes	0.533	EMPC-J	Yes	0.0935	EMPC-J	Yes	0.0598	U	No	0.057	EMPC-J	Yes	0.0394	U	No	0.0645	U	No	0.09	EMPC-J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.052	U	No	0.463	J	Yes	0.0492	U	No	0.0735	U	No	0.0803	J	Yes	0.0621	U	No	0.102	U	No	0.0506	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.142	EMPC-J	Yes	0.508	J	Yes	0.11	J	Yes	0.0921	U	No	0.0786	U	No	0.0729	U	No	0.118	U	No	0.0725	EMPC-J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.0606	U	No	0.398	J	Yes	0.0846	EMPC-J	Yes	0.0819	U	No	0.0617	U	No	0.0539	U	No	0.0955	U	No	0.0682	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	0.666	EMPC-J	Yes	23.2	J	Yes	0.727	J	Yes	0.0653	J	Yes	0.191	J	Yes	0.152	J	Yes	0.0603	J	Yes	0.227	EMPC-J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	0.474	EMPC-J	Yes	10.8	EMPC-J	Yes	0.681	EMPC-J	Yes	0.036	U	No	0.195	EMPC-J	Yes	0.175	J	Yes	0.03	U	No	0.272	EMPC-J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	0.189	EMPC-J	Yes	8.14	J	Yes	0.332	J	Yes	0.0347	U	No	0.106	J	Yes	0.0735	J	Yes	0.0397	U	No	0.0728	EMPC-J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	0.717	EMPC-J	Yes	5	J	Yes	0.606	J	Yes	0.0428	U	No	0.347	J	Yes	0.199	J	Yes	0.0593	U	No	0.332	EMPC-J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.34		Yes	2.85	J	Yes	0.372	EMPC-J	Yes	0.0346	U	No	0.185	J	Yes	0.161	J	Yes	0.0402	U	No	0.0663	J

BERA Tissue Chemistry Data from Above Dundee Dam

					)F	2,3,4,6,7,8-HxCDF		
						ng/kg		
Species	Tissue Type	Event	Reach	Field Sample ID	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	No	0.0955	EMPC-J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes	0.39	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes	0.264	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	No	0.312	EMPC-J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes	0.281	EMPC-J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes	0.401	J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	No	0.169	U	No
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes	0.254	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	No	0.0547	U	No
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	Yes	0.185	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes	0.13	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes	0.101	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes	0.103	EMPC-J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	No	0.0564	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	No	0.116	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	No	0.045	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes	0.0907	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes	0.0833	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes	0.069	EMPC-J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	Yes	0.24	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes	0.231	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes	0.164	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	Yes	0.166	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	Yes	0.3	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes	0.345	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	Yes	0.242	EMPC-J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	Yes	0.128	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	No	0.1	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	No	0.0377	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	No	0.0431	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	No	0.0546	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	No	0.0588	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	No	0.0748	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	No	0.0889	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	No	0.0447	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	Yes	0.169	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes	0.148	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes	0.109	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	Yes	0.109	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	Yes	0.193	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes	0.221	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes	0.159	EMPC-J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	Yes	0.0466	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	Yes	0.235	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes	0.235	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes	0.0763	EMPC-J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes	0.278	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	No	0.178	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	Yes	0.0728	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	Yes	0.0466	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	No	0.0738	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	Yes	0.0837	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	Yes	0.0654	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	Yes	0.146	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes	0.159	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes	0.0592	EMPC-J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes	0.202	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes	0.118	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	2,3,4,7,8-PeCDF ng/kg			2,3,7,8-TCDF ng/kg			OCDF ng/kg			PCDD TEQ-Bird ng/kg			PCDD TEQ-Bird (ND=0.5DL) ng/kg			PCDD TEQ-Bird (ND=DL) ng/kg			PCDD TEQ-Fish ng/kg			PCDD TEQ-Fish (ND ng/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.795	J	Yes	0.244	J	Yes	0.188	U	No	1.21	J	Yes	1.21	J	Yes	1.21	J	Yes	1.32	J	Yes	1.32	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	2.06	EMPC-J	Yes	1.55	EMPC-J	Yes	0.317	EMPC-J	Yes	4.68	J	Yes	4.71	J	Yes	4.73	J	Yes	4.93	J	Yes	4.95	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	1.98	J	Yes	0.424	EMPC-J	Yes	0.376	J	Yes	7.27	J	Yes	7.29	J	Yes	7.31	J	Yes	7.57	J	Yes	7.57	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	2.32	J	Yes	0.388		Yes	0.142	EMPC-J	Yes	7.25	J	Yes	7.25	J	Yes	7.25	J	Yes	7.58	J	Yes	7.58	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	1.6	J	Yes	0.418	J	Yes	0.121	EMPC-J	Yes	2.15	J	Yes	2.17	J	Yes	2.2	J	Yes	2.38	J	Yes	2.39	J
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	2.85		Yes	19.6		Yes	0.222	J	Yes	5.14	J	Yes	5.14	J	Yes	5.14	J	Yes	5.56	J	Yes	5.56	J
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.316	J	Yes	1.74		Yes	0.361	U	No	0.54	J	Yes	0.55	J	Yes	0.561	J	Yes	0.54	J	Yes	0.574	J
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	1.67	J	Yes	11.3		Yes	0.203	J	Yes	3	J	Yes	3	J	Yes	3.01	J	Yes	3.22	J	Yes	3.24	J
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.0415	U	No	0.364	J	Yes	0.36	J	Yes	0.0821	J	Yes	0.12	J	Yes	0.157	J	Yes	0.0821	J	Yes	0.128	J
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	0.791	J	Yes	8.33		Yes	0.312	J	Yes	1.5	J	Yes	1.51	J	Yes	1.53	J	Yes	1.61	J	Yes	1.61	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	1.6	J	Yes	2.26		Yes	0.215	U	No	2.16	J	Yes	2.16	J	Yes	2.16	J	Yes	2.21	J	Yes	2.21	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	1.41	J	Yes	1.77		Yes	0.202	U	No	2.08	J	Yes	2.08	J	Yes	2.08	J	Yes	2.06	J	Yes	2.08	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	1.58	J	Yes	2.1		Yes	0.13	U	No	2.3	J	Yes	2.3	J	Yes	2.3	J	Yes	2.33	J	Yes	2.33	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.0726	EMPC-J	Yes	0.111	J	Yes	0.189	U	No	0.0000297	J	Yes	0.0795	J	Yes	0.159	J	Yes	0.0000297	J	Yes	0.0923	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.0929	U	No	0.127	J	Yes	0.216	U	No	0.148	U	No	0.148	U	No	0.148	U	No	0.148	U	No	0.148	U
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.0463	U	No	0.0922	J	Yes	0.129	U	No	0.000147	J	Yes	0.0695	J	Yes	0.139	J	Yes	0.000147	J	Yes	0.0788	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	1.01	EMPC-J	Yes	1.43	J	Yes	0.102	U	No	1.33	J	Yes	1.36	J	Yes	1.39	J	Yes	1.36	J	Yes	1.39	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	0.85	J	Yes	1.09	J	Yes	0.104	U	No	1.26	J	Yes	1.26	J	Yes	1.26	J	Yes	1.24	J	Yes	1.26	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	0.923	J	Yes	1.25	J	Yes	0.0648	U	No	1.33	J	Yes	1.36	J	Yes	1.39	J	Yes	1.35	J	Yes	1.38	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	1.43	J	Yes	3.63		Yes	1.67	J	Yes	1.63	J	Yes	1.64	J	Yes	1.65	J	Yes	1.85	J	Yes	1.85	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	1.82	J	Yes	5.71		Yes	0.23	J	Yes	2.38	J	Yes	2.39	J	Yes	2.4	J	Yes	2.55	J	Yes	2.55	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	1.36	J	Yes	5.05		Yes	0.475	J	Yes	1.57	J	Yes	1.58	J	Yes	1.59	J	Yes	1.68	J	Yes	1.68	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	1.19	J	Yes	4.01		Yes	0.576	J	Yes	1.43	J	Yes	1.44	J	Yes	1.45	J	Yes	1.57	J	Yes	1.57	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	2.14	J	Yes	6.83		Yes	1.21	J	Yes	2.72	J	Yes	2.73	J	Yes	2.74	J	Yes	2.94	J	Yes	2.94	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	2.38	J	Yes	9.96		Yes	0.381	J	Yes	2.95	J	Yes	2.97	J	Yes	2.99	J	Yes	3.23	J	Yes	3.23	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	1.54	J	Yes	6.4		Yes	0.765	J	Yes	1.96	J	Yes	1.98	J	Yes	1.99	J	Yes	2.17	J	Yes	2.17	J
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	0.949	J	Yes	4.01		Yes	0.997	J	Yes	1.3	J	Yes	1.31	J	Yes	1.31	J	Yes	1.45	J	Yes	1.45	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.191	J	Yes	0.355	EMPC-J	Yes	0.255	U	No	0.111	UJ	No	0.111	UJ	No	0.111	UJ	No	0.111	UJ	No	0.111	UJ
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.119	J	Yes	0.333	J	Yes	0.108	U	No	0.0802	J	Yes	0.113	J	Yes	0.146	J	Yes	0.0802	J	Yes	0.119	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.0964	EMPC-J	Yes	0.341	J	Yes	0.127	U	No	0.111	J	Yes	0.119	J	Yes	0.126	J	Yes	0.111	J	Yes	0.126	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.0618	J	Yes	0.222	J	Yes	0.112	U	No	0.0532	J	Yes	0.0929	J	Yes	0.133	J	Yes	0.0532	J	Yes	0.104	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.0825	EMPC-J	Yes	0.277	J	Yes	0.101	U	No	0.139	J	Yes	0.144	J	Yes	0.149	J	Yes	0.139	J	Yes	0.154	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.065	J	Yes	0.234	J	Yes	0.144	U	No	0.000146	J	Yes	0.0681	J	Yes	0.136	J	Yes	0.000146	J	Yes	0.0807	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.177	J	Yes	0.702		Yes	0.205	U	No	0.214	J	Yes	0.221	J	Yes	0.229	J	Yes	0.214	J	Yes	0.237	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.176	J	Yes	0.61		Yes	0.108	U	No	0.203	J	Yes	0.207	J	Yes	0.212	J	Yes	0.203	J	Yes	0.216	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	0.965	J	Yes	2.4	EMPC-J	Yes	1.09	J	Yes	1.04	J	Yes	1.05	J	Yes	1.05	J	Yes	1.18	J	Yes	1.18	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	1.15	J	Yes	3.6	J	Yes	0.161	J	Yes	1.48	J	Yes	1.5	J	Yes	1.52	J	Yes	1.58	J	Yes	1.6	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	0.872	EMPC-J	Yes	3.23	J	Yes	0.316	J	Yes	1.01	J	Yes	1.02	J	Yes	1.02	J	Yes	1.07	J	Yes	1.08	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	0.729	J	Yes	2.46	J	Yes	0.363	J	Yes	0.867	J	Yes	0.889	J	Yes	0.911	J	Yes	0.95	J	Yes	0.97	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	1.33	EMPC-J	Yes	4.24	J	Yes	0.751	J	Yes	1.7	J	Yes	1.71	J	Yes	1.71	J	Yes	1.83	J	Yes	1.84	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	1.45	J	Yes	6.05	J	Yes	0.257	J	Yes	1.76	J	Yes	1.8	J	Yes	1.84	J	Yes	1.93	J	Yes	1.96	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	0.968	J	Yes	4.01		Yes	0.487	J	Yes	1.23	J	Yes	1.24	J	Yes	1.25	J	Yes	1.35	J	Yes	1.36	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	0.627	J	Yes	2.59		Yes	0.604	J	Yes	0.843	J	Yes	0.85	J	Yes	0.852	J	Yes	0.93	J	Yes	0.935	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	1.05	J	Yes	7.3		Yes	4.04	J	Yes	1.72	J	Yes	1.74	J	Yes	1.75	J	Yes	1.92	J	Yes	1.92	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	0.943	J	Yes	5.34		Yes	1.01	J	Yes	1.36	J	Yes	1.38	J	Yes	1.39	J	Yes	1.56	J	Yes	1.56	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	0.357	J	Yes	1.3		Yes	1.21	J	Yes	0.582	J	Yes	0.589	J	Yes	0.596	J	Yes	0.663	J	Yes	0.663	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	1.38	J	Yes	9.29		Yes	0.573	J	Yes	1.89	J	Yes	1.91	J	Yes	1.92	J	Yes	2.24	J	Yes	2.25	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	1.01	J	Yes	6.64		Yes	0.432	J	Yes	1.3	J	Yes	1.31	J	Yes	1.32	J	Yes	1.53	J	Yes	1.53	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.139	EMPC-J	Yes	1.2		Yes	0.144	U	No	0.283	J	Yes	0.289	J	Yes	0.294	J	Yes	0.283	J	Yes	0.299	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.218	J	Yes	1.19		Yes	0.114	U	No	0.331	J	Yes	0.335	J	Yes	0.34	J	Yes	0.385	J	Yes	0.385	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.0828	EMPC-J	Yes	0.286	J	Yes	0.161	U	No	0.112	J	Yes	0.144	J	Yes	0.177	J	Yes	0.112	J	Yes	0.157	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.179	J	Yes	1.23		Yes	0.202	U	No	0.307	J	Yes	0.314	J	Yes	0.322	J	Yes	0.307	J	Yes	0.33	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.153	J	Yes	0.734		Yes	0.163	U	No	0.000241	J	Yes	0.0776	J	Yes	0.155	J	Yes	0.000241	J	Yes	0.0911	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	0.644	EMPC-J	Yes	4.58		Yes	2.27	J	Yes	1.08	J	Yes	1.09	J	Yes	1.1	J	Yes	1.19	J	Yes	1.2	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	0.683	J	Yes	3.85		Yes	0.668	J	Yes	0.991	J	Yes	1	J	Yes	1.01	J	Yes	1.14	J	Yes	1.14	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	0.238	EMPC-J	Yes	0.861	J	Yes	0.721	J	Yes	0.378	J	Yes	0.396	J	Yes	0.415	J	Yes	0.424	J	Yes	0.444	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	0.992	J	Yes	6.69		Yes	0.421	J	Yes	1.38	J	Yes	1.39	J	Yes	1.4	J	Yes	1.62	J	Yes	1.63	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.655	J	Yes	4.19		Yes	0.287	J	Yes	0.762	J	Yes	0.8	J	Yes	0.838	J	Yes	0.897	J	Yes	0.934	J

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	=0.5DL) Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	PCDD TEQ-Fish (ND=DL) ng/kg			PCDD TEQ-Mammal ng/kg			PCDD TEQ-Mammal (ND=0.5DL) ng/kg			PCDD TEQ-Mammal (ND=DL) ng/kg			PCDF TEQ-Bird ng/kg			PCDF TEQ-Bird (ND=0.5DL) ng/kg			PCDF TEQ-Bird (ND=DL) ng/kg			PCDF TEQ-Fis ng/kg		
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	1.32	J	Yes	1.31	J	Yes	1.31	J	Yes	1.31	J	Yes	1.08	J	Yes	1.09	J	Yes	1.1	J	Yes	0.448	J	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	4.96	J	Yes	4.91	J	Yes	4.94	J	Yes	4.97	J	Yes	3.78	J	Yes	3.79	J	Yes	3.8	J	Yes	1.25	J	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	7.58	J	Yes	7.56	J	Yes	7.59	J	Yes	7.61	J	Yes	2.47	J	Yes	2.5	J	Yes	2.52	J	Yes	1.09	J	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	7.58	J	Yes	7.58	J	Yes	7.58	J	Yes	7.58	J	Yes	2.79	J	Yes	2.82	J	Yes	2.84	J	Yes	1.27	J	
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	2.39	J	Yes	2.35	J	Yes	2.36	J	Yes	2.38	J	Yes	2.12	J	Yes	2.12	J	Yes	2.13	J	Yes	0.91	J	
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	5.56	J	Yes	5.42	J	Yes	5.42	J	Yes	5.42	J	Yes	22.7	J	Yes	22.7	J	Yes	22.7	J	Yes	2.64	J	
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.608	J	Yes	0.554	J	Yes	0.569	J	Yes	0.584	J	Yes	2.06	J	Yes	2.1	J	Yes	2.14	J	Yes	0.246	J	
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	3.25	J	Yes	3.15	J	Yes	3.16	J	Yes	3.17	J	Yes	13.1	J	Yes	13.1	J	Yes	13.1	J	Yes	1.52	J	
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.174	J	Yes	0.0859	J	Yes	0.127	J	Yes	0.168	J	Yes	0.366	J	Yes	0.4	J	Yes	0.435	J	Yes	0.0198	J	
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	1.61	J	Yes	1.58	J	Yes	1.59	J	Yes	1.6	J	Yes	9.21	J	Yes	9.21	J	Yes	9.22	J	Yes	0.886	J	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	2.21	J	Yes	2.2	J	Yes	2.2	J	Yes	2.2	J	Yes	3.94	J	Yes	3.95	J	Yes	3.96	J	Yes	0.98	J	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	2.11	J	Yes	2.11	J	Yes	2.11	J	Yes	2.12	J	Yes	3.25	J	Yes	3.26	J	Yes	3.26	J	Yes	0.853	J	
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	2.33	J	Yes	2.34	J	Yes	2.34	J	Yes	2.34	J	Yes	3.74	J	Yes	3.75	J	Yes	3.75	J	Yes	0.945	J	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.185	J	Yes	0.0000891	J	Yes	0.085	J	Yes	0.17	J	Yes	0.184	J	Yes	0.198	J	Yes	0.213	J	Yes	0.0419	J	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.148	U	No	0.148	U	No	0.148	U	No	0.148	U	No	0.127	J	Yes	0.202	J	Yes	0.277	J	Yes	0.00635	J	
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.157	J	Yes	0.00121	J	Yes	0.0743	J	Yes	0.147	J	Yes	0.0922	J	Yes	0.128	J	Yes	0.163	J	Yes	0.00461	J	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	1.43	J	Yes	1.35	J	Yes	1.38	J	Yes	1.42	J	Yes	2.49	J	Yes	2.5	J	Yes	2.51	J	Yes	0.618	J	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	1.27	J	Yes	1.27	J	Yes	1.27	J	Yes	1.28	J	Yes	1.97	J	Yes	2	J	Yes	2.03	J	Yes	0.505	J	
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	1.41	J	Yes	1.35	J	Yes	1.38	J	Yes	1.41	J	Yes	2.2	J	Yes	2.22	J	Yes	2.24	J	Yes	0.548	J	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	1.85	J	Yes	1.75	J	Yes	1.76	J	Yes	1.77	J	Yes	5.19	J	Yes	5.19	J	Yes	5.2	J	Yes	1.01	J	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	2.55	J	Yes	2.49	J	Yes	2.5	J	Yes	2.51	J	Yes	7.68	J	Yes	7.68	J	Yes	7.68	J	Yes	1.32	J	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	1.68	J	Yes	1.64	J	Yes	1.65	J	Yes	1.66	J	Yes	6.5	J	Yes	6.5	J	Yes	6.5	J	Yes	1.01	J	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	1.57	J	Yes	1.51	J	Yes	1.52	J	Yes	1.53	J	Yes	5.3	J	Yes	5.3	J	Yes	5.3	J	Yes	0.877	J	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	2.94	J	Yes	2.86	J	Yes	2.87	J	Yes	2.88	J	Yes	9.14	J	Yes	9.15	J	Yes	9.15	J	Yes	1.55	J	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	3.24	J	Yes	3.1	J	Yes	3.12	J	Yes	3.14	J	Yes	12.6	J	Yes	12.6	J	Yes	12.6	J	Yes	1.86	J	
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	2.17	J	Yes	2.08	J	Yes	2.09	J	Yes	2.1	J	Yes	8.08	J	Yes	8.09	J	Yes	8.1	J	Yes	1.21	J	
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	1.46	J	Yes	1.38	J	Yes	1.39	J	Yes	1.39	J	Yes	5.04	J	Yes	5.05	J	Yes	5.07	J	Yes	0.742	J	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.111	UJ	No	0.111	UJ	No	0.111	UJ	No	0.111	UJ	No	0.546	J	Yes	0.57	J	Yes	0.594	J	Yes	0.113	J	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.158	J	Yes	0.081	J	Yes	0.117	J	Yes	0.152	J	Yes	0.452	J	Yes	0.462	J	Yes	0.472	J	Yes	0.0762	J	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.14	J	Yes	0.111	J	Yes	0.123	J	Yes	0.134	J	Yes	0.437	J	Yes	0.448	J	Yes	0.459	J	Yes	0.0653	J	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.155	J	Yes	0.0533	J	Yes	0.0977	J	Yes	0.142	J	Yes	0.284	J	Yes	0.298	J	Yes	0.312	J	Yes	0.042	J	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.169	J	Yes	0.14	J	Yes	0.149	J	Yes	0.158	J	Yes	0.36	J	Yes	0.374	J	Yes	0.388	J	Yes	0.0551	J	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.161	J	Yes	0.00146	J	Yes	0.0741	J	Yes	0.147	J	Yes	0.299	J	Yes	0.317	J	Yes	0.335	J	Yes	0.0442	J	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.261	J	Yes	0.215	J	Yes	0.229	J	Yes	0.242	J	Yes	0.879	J	Yes	0.902	J	Yes	0.924	J	Yes	0.124	J	
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.229	J	Yes	0.211	J	Yes	0.217	J	Yes	0.222	J	Yes	0.786	J	Yes	0.798	J	Yes	0.81	J	Yes	0.119	J	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	1.18	J	Yes	1.11	J	Yes	1.12	J	Yes	1.13	J	Yes	3.45	J	Yes	3.46	J	Yes	3.47	J	Yes	0.674	J	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	1.61	J	Yes	1.55	J	Yes	1.57	J	Yes	1.59	J	Yes	4.85	J	Yes	4.85	J	Yes	4.85	J	Yes	0.832	J	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	1.09	J	Yes	1.05	J	Yes	1.06	J	Yes	1.07	J	Yes	4.16	J	Yes	4.16	J	Yes	4.17	J	Yes	0.645	J	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	0.991	J	Yes	0.914	J	Yes	0.938	J	Yes	0.962	J	Yes	3.25	J	Yes	3.25	J	Yes	3.26	J	Yes	0.535	J	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	1.84	J	Yes	1.78	J	Yes	1.79	J	Yes	1.8	J	Yes	5.66	J	Yes	5.67	J	Yes	5.68	J	Yes	0.958	J	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	2	J	Yes	1.85	J	Yes	1.9	J	Yes	1.94	J	Yes	7.65	J	Yes	7.66	J	Yes	7.67	J	Yes	1.13	J	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	1.37	J	Yes	1.3	J	Yes	1.31	J	Yes	1.32	J	Yes	5.06	J	Yes	5.07	J	Yes	5.09	J	Yes	0.754	J	
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	0.947	J	Yes	0.893	J	Yes	0.901	J	Yes	0.903	J	Yes	3.27	J	Yes	3.28	J	Yes	3.29	J	Yes	0.482	J	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	1.92	J	Yes	1.87	J	Yes	1.89	J	Yes	1.9	J	Yes	8.49	J	Yes	8.49	J	Yes	8.49	J	Yes	1.01	J	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	1.56	J	Yes	1.47	J	Yes	1.49	J	Yes	1.5	J	Yes	6.41	J	Yes	6.41	J	Yes	6.41	J	Yes	0.844	J	
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	0.664	J	Yes	0.63	J	Yes	0.637	J	Yes	0.645	J	Yes	1.7	J	Yes	1.71	J	Yes	1.71	J	Yes	0.285	J	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	2.25	J	Yes	2.03	J	Yes	2.05	J	Yes	2.06	J	Yes	10.8	J	Yes	10.8	J	Yes	10.8	J	Yes	1.29	J	
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	1.54	J	Yes	1.41	J	Yes	1.42	J	Yes	1.43	J	Yes	7.73	J	Yes	7.74	J	Yes	7.75	J	Yes	0.915	J	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.314	J	Yes	0.293	J	Yes	0.3	J	Yes	0.307	J	Yes	1.35	J	Yes	1.36	J	Yes	1.38	J	Yes	0.134	J	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.386	J	Yes	0.351	J	Yes	0.355	J	Yes	0.36	J	Yes	1.42	J	Yes	1.43	J	Yes	1.44	J	Yes	0.18	J	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.202	J	Yes	0.114	J	Yes	0.151	J	Yes	0.188	J	Yes	0.377	J	Yes	0.392	J	Yes	0.407	J	Yes	0.0637	J	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.354	J	Yes	0.322	J	Yes	0.332	J	Yes	0.342	J	Yes	1.42	J	Yes	1.44	J	Yes	1.45	J	Yes	0.156	J	
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.182	J	Yes	0.00213	J	Yes	0.0846	J	Yes	0.167	J	Yes	0.895	J	Yes	0.909	J	Yes	0.923	J	Yes	0.117	J	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	1.2	J	Yes	1.17	J	Yes	1.18	J	Yes	1.19	J	Yes	5.31	J	Yes	5.31	J	Yes	5.32	J	Yes	0.619	J	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	1.14	J	Yes	1.07	J	Yes	1.08	J	Yes	1.09	J	Yes	4.62	J	Yes	4.62	J	Yes	4.63	J	Yes	0.606	J	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	0.464	J	Yes	0.407	J	Yes	0.427	J	Yes	0.447	J	Yes	1.13	J	Yes	1.14	J	Yes	1.15	J	Yes	0.189	J	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	1.64	J	Yes	1.48	J	Yes	1.5	J	Yes	1.51	J	Yes	7.77	J	Yes	7.78	J	Yes	7.78	J	Yes	0.924	J	
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.978	J	Yes	0.827	J	Yes	0.867	J	Yes	0.907	J	Yes	4.9	J	Yes	4.91	J	Yes	4.92	J	Yes	0.585	J	

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	h	PCDF TEQ-Fish (ND=0.5DL)		
						ng/kg		
					Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	Yes	0.457	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes	1.26	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes	1.1	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	Yes	1.28	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes	0.92	J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes	2.64	J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	Yes	0.284	J	Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes	1.54	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	Yes	0.0433	J	Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	Yes	0.889	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes	0.987	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes	0.858	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes	0.95	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	Yes	0.0554	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	Yes	0.0558	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	Yes	0.0273	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes	0.627	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes	0.528	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes	0.561	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	Yes	1.01	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes	1.32	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes	1.01	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	Yes	0.879	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	Yes	1.56	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes	1.87	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	Yes	1.22	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	Yes	0.756	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	Yes	0.136	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	Yes	0.0853	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	Yes	0.0753	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	Yes	0.0549	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	Yes	0.0684	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	Yes	0.0614	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	Yes	0.145	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	Yes	0.13	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	Yes	0.682	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes	0.836	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes	0.649	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	Yes	0.542	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	Yes	0.969	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes	1.14	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes	0.769	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	Yes	0.495	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	Yes	1.01	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes	0.848	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes	0.289	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes	1.3	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	Yes	0.923	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	Yes	0.149	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	Yes	0.187	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	Yes	0.0775	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	Yes	0.174	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	Yes	0.132	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	Yes	0.626	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes	0.611	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes	0.197	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes	0.936	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes	0.596	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	PCDF TEQ-Fish (ND=DL) ng/kg			PCDF TEQ-Mammal ng/kg			PCDF TEQ-Mammal (ND=0.5DL) ng/kg			PCDF TEQ-Mammal (ND=DL) ng/kg			Dioxin TEQ-Bird ng/kg			Dioxin TEQ-Bird (ND=0.5DL) ng/kg			Dioxin TEQ-Bird (ND=DL) ng/kg		
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	0.466	J	Yes	0.301	J	Yes	0.309	J	Yes	0.317	J	Yes	2.29	J	Yes	2.3	J	Yes	2.31	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	1.27	J	Yes	0.908	J	Yes	0.914	J	Yes	0.927	J	Yes	8.43	J	Yes	8.52	J	Yes	8.53	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	1.11	J	Yes	0.711	J	Yes	0.722	J	Yes	0.733	J	Yes	9.72	J	Yes	9.82	J	Yes	9.84	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	1.29	J	Yes	0.825	J	Yes	0.838	J	Yes	0.842	J	Yes	10.1	J	Yes	10.1	J	Yes	10.1	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	0.922	J	Yes	0.613	J	Yes	0.618	J	Yes	0.624	J	Yes	4.27	J	Yes	4.29	J	Yes	4.32	J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	2.65	J	Yes	3.02	J	Yes	3.03	J	Yes	3.04	J	Yes	27.9	J	Yes	27.9	J	Yes	27.9	J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	0.322	J	Yes	0.27	J	Yes	0.307	J	Yes	0.343	J	Yes	2.6	J	Yes	2.65	J	Yes	2.7	J	Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	1.57	J	Yes	1.74	J	Yes	1.76	J	Yes	1.78	J	Yes	16.1	J	Yes	16.1	J	Yes	16.2	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.0667	J	Yes	0.0381	J	Yes	0.057	J	Yes	0.0759	J	Yes	0.448	J	Yes	0.52	J	Yes	0.592	J	Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	0.892	J	Yes	1.14	J	Yes	1.14	J	Yes	1.14	J	Yes	10.7	J	Yes	10.7	J	Yes	10.7	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	0.994	J	Yes	0.768	J	Yes	0.774	J	Yes	0.781	J	Yes	6.11	J	Yes	6.11	J	Yes	6.12	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	0.863	J	Yes	0.654	J	Yes	0.66	J	Yes	0.665	J	Yes	5.33	J	Yes	5.33	J	Yes	5.34	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	0.955	J	Yes	0.728	J	Yes	0.734	J	Yes	0.739	J	Yes	6.04	J	Yes	6.04	J	Yes	6.05	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.069	J	Yes	0.0329	J	Yes	0.046	J	Yes	0.0591	J	Yes	0.184	J	Yes	0.278	J	Yes	0.372	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.105	J	Yes	0.0127	J	Yes	0.0521	J	Yes	0.0914	J	Yes	0.127	J	Yes	0.351	J	Yes	0.575	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.05	J	Yes	0.00922	J	Yes	0.0268	J	Yes	0.0445	J	Yes	0.0923	J	Yes	0.197	J	Yes	0.302	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	0.637	J	Yes	0.484	J	Yes	0.493	J	Yes	0.502	J	Yes	3.82	J	Yes	3.86	J	Yes	3.9	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	0.551	J	Yes	0.39	J	Yes	0.41	J	Yes	0.429	J	Yes	3.19	J	Yes	3.28	J	Yes	3.38	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	0.573	J	Yes	0.425	J	Yes	0.436	J	Yes	0.446	J	Yes	3.53	J	Yes	3.57	J	Yes	3.62	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	1.02	J	Yes	0.897	J	Yes	0.902	J	Yes	0.907	J	Yes	6.82	J	Yes	6.83	J	Yes	6.85	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	1.32	J	Yes	1.23	J	Yes	1.23	J	Yes	1.23	J	Yes	10.1	J	Yes	10.1	J	Yes	10.1	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	1.01	J	Yes	0.982	J	Yes	0.983	J	Yes	0.985	J	Yes	8.07	J	Yes	8.08	J	Yes	8.09	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	0.882	J	Yes	0.832	J	Yes	0.835	J	Yes	0.837	J	Yes	6.72	J	Yes	6.74	J	Yes	6.75	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	1.56	J	Yes	1.46	J	Yes	1.46	J	Yes	1.47	J	Yes	11.9	J	Yes	11.9	J	Yes	11.9	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	1.88	J	Yes	1.87	J	Yes	1.88	J	Yes	1.88	J	Yes	15.5	J	Yes	15.5	J	Yes	15.6	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	1.23	J	Yes	1.21	J	Yes	1.22	J	Yes	1.23	J	Yes	10	J	Yes	10.1	J	Yes	10.1	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	0.77	J	Yes	0.747	J	Yes	0.761	J	Yes	0.776	J	Yes	6.34	J	Yes	6.36	J	Yes	6.38	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.158	J	Yes	0.0928	J	Yes	0.115	J	Yes	0.137	J	Yes	0.546	J	Yes	0.674	J	Yes	0.803	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.0945	J	Yes	0.069	J	Yes	0.0778	J	Yes	0.0866	J	Yes	0.532	J	Yes	0.575	J	Yes	0.618	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.0853	J	Yes	0.063	J	Yes	0.0728	J	Yes	0.0825	J	Yes	0.549	J	Yes	0.567	J	Yes	0.585	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.0678	J	Yes	0.0407	J	Yes	0.0532	J	Yes	0.0657	J	Yes	0.337	J	Yes	0.391	J	Yes	0.444	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.0817	J	Yes	0.0525	J	Yes	0.0654	J	Yes	0.0784	J	Yes	0.498	J	Yes	0.518	J	Yes	0.537	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.0785	J	Yes	0.0429	J	Yes	0.0596	J	Yes	0.0764	J	Yes	0.299	J	Yes	0.385	J	Yes	0.471	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.166	J	Yes	0.123	J	Yes	0.144	J	Yes	0.165	J	Yes	1.09	J	Yes	1.12	J	Yes	1.15	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.141	J	Yes	0.114	J	Yes	0.124	J	Yes	0.135	J	Yes	0.989	J	Yes	1.01	J	Yes	1.02	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	0.697	J	Yes	0.595	J	Yes	0.607	J	Yes	0.618	J	Yes	4.47	J	Yes	4.52	J	Yes	4.58	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	0.84	J	Yes	0.775	J	Yes	0.778	J	Yes	0.782	J	Yes	6.35	J	Yes	6.37	J	Yes	6.38	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	0.653	J	Yes	0.627	J	Yes	0.632	J	Yes	0.637	J	Yes	5.17	J	Yes	5.18	J	Yes	5.19	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	0.549	J	Yes	0.508	J	Yes	0.515	J	Yes	0.522	J	Yes	4.11	J	Yes	4.14	J	Yes	4.17	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	0.975	J	Yes	0.903	J	Yes	0.908	J	Yes	0.919	J	Yes	7.38	J	Yes	7.39	J	Yes	7.4	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	1.16	J	Yes	1.14	J	Yes	1.15	J	Yes	1.15	J	Yes	9.39	J	Yes	9.42	J	Yes	9.52	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	0.783	J	Yes	0.753	J	Yes	0.768	J	Yes	0.783	J	Yes	6.26	J	Yes	6.33	J	Yes	6.34	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	0.508	J	Yes	0.483	J	Yes	0.495	J	Yes	0.509	J	Yes	4.11	J	Yes	4.13	J	Yes	4.14	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	1.01	J	Yes	1.16	J	Yes	1.16	J	Yes	1.16	J	Yes	10.2	J	Yes	10.2	J	Yes	10.2	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	0.851	J	Yes	0.915	J	Yes	0.919	J	Yes	0.922	J	Yes	7.77	J	Yes	7.79	J	Yes	7.81	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	0.292	J	Yes	0.277	J	Yes	0.281	J	Yes	0.284	J	Yes	2.29	J	Yes	2.3	J	Yes	2.31	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	1.3	J	Yes	1.47	J	Yes	1.48	J	Yes	1.48	J	Yes	12.7	J	Yes	12.7	J	Yes	12.8	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	0.93	J	Yes	1.05	J	Yes	1.05	J	Yes	1.06	J	Yes	9.02	J	Yes	9.05	J	Yes	9.07	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.165	J	Yes	0.165	J	Yes	0.18	J	Yes	0.195	J	Yes	1.63	J	Yes	1.65	J	Yes	1.67	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.195	J	Yes	0.194	J	Yes	0.202	J	Yes	0.209	J	Yes	1.75	J	Yes	1.77	J	Yes	1.78	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.0913	J	Yes	0.0615	J	Yes	0.0748	J	Yes	0.0881	J	Yes	0.489	J	Yes	0.536	J	Yes	0.584	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.192	J	Yes	0.18	J	Yes	0.198	J	Yes	0.216	J	Yes	1.72	J	Yes	1.75	J	Yes	1.78	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.146	J	Yes	0.122	J	Yes	0.136	J	Yes	0.151	J	Yes	0.895	J	Yes	0.986	J	Yes	1.08	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	0.633	J	Yes	0.716	J	Yes	0.723	J	Yes	0.73	J	Yes	6.38	J	Yes	6.39	J	Yes	6.4	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	0.615	J	Yes	0.656	J	Yes	0.662	J	Yes	0.666	J	Yes	5.61	J	Yes	5.63	J	Yes	5.65	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	0.205	J	Yes	0.184	J	Yes	0.192	J	Yes	0.199	J	Yes	1.51	J	Yes	1.54	J	Yes	1.56	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	0.942	J	Yes	1.05	J	Yes	1.07	J	Yes	1.07	J	Yes	9.15	J	Yes	9.16	J	Yes	9.24	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	0.605	J	Yes	0.666	J	Yes	0.672	J	Yes	0.684	J	Yes	5.66	J	Yes	5.71	J	Yes	5.76	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	Dioxin TEQ-Bird (KM) ng/kg Value	Qual	Detect	Dioxin TEQ-Fish ng/kg Value	Qual	Detect	Dioxin TEQ-Fish (ND=0.5DL) ng/kg Value	Qual	Detect	Dioxin TEQ-Fish (ND=DL) ng/kg Value	Qual	Detect	Dioxin TEQ-Fish (KM) ng/kg Value	Qual	Detect	Dioxin TEQ-Mammal ng/kg Value	Qual	Detect	Dioxin TEQ-Mammal (ND=0.5DL) ng/kg Value	Qual	Detect	Dioxin TEQ-Mammal ng/kg Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	2.29		Yes	1.77	J	Yes	1.78	J	Yes	1.79	J	Yes	1.77		Yes	1.61	J	Yes	1.62	J	Yes	1.63	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	8.51		Yes	6.18	J	Yes	6.2	J	Yes	6.23	J	Yes	6.19		Yes	5.82	J	Yes	5.85	J	Yes	5.89	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	9.73		Yes	8.69	J	Yes	8.69	J	Yes	8.7	J	Yes	8.69		Yes	8.24	J	Yes	8.32	J	Yes	8.33	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	10.1		Yes	8.82	J	Yes	8.83	J	Yes	8.91	J	Yes	8.83		Yes	8.42	J	Yes	8.43	J	Yes	8.43	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	4.28		Yes	3.3	J	Yes	3.3	J	Yes	3.31	J	Yes	3.3		Yes	2.96	J	Yes	2.98	J	Yes	3.01	J
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	27.9		Yes	8.19	J	Yes	8.2	J	Yes	8.2	J	Yes	8.19		Yes	8.44	J	Yes	8.45	J	Yes	8.45	J
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	2.6		Yes	0.786	J	Yes	0.858	J	Yes	0.93	J	Yes	0.789		Yes	0.824	J	Yes	0.875	J	Yes	0.927	J
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	16.1		Yes	4.74	J	Yes	4.78	J	Yes	4.81	J	Yes	4.74		Yes	4.89	J	Yes	4.92	J	Yes	4.94	J
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.452		Yes	0.102	J	Yes	0.171	J	Yes	0.24	J	Yes	0.11		Yes	0.124	J	Yes	0.184	J	Yes	0.244	J
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	10.7		Yes	2.5	J	Yes	2.5	J	Yes	2.51	J	Yes	2.5		Yes	2.72	J	Yes	2.73	J	Yes	2.75	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	6.11		Yes	3.19	J	Yes	3.2	J	Yes	3.2	J	Yes	3.19		Yes	2.97	J	Yes	2.98	J	Yes	2.98	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	5.33		Yes	2.92	J	Yes	2.94	J	Yes	2.97	J	Yes	2.92		Yes	2.76	J	Yes	2.77	J	Yes	2.78	J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	6.04		Yes	3.27	J	Yes	3.28	J	Yes	3.28	J	Yes	3.28		Yes	3.07	J	Yes	3.07	J	Yes	3.08	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.189		Yes	0.0419	J	Yes	0.148	J	Yes	0.254	J	Yes	0.116		Yes	0.033	J	Yes	0.131	J	Yes	0.229	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.127	J	Yes	0.00635	J	Yes	0.231	J	Yes	0.455	J	Yes	0.00635	J	Yes	0.0127	J	Yes	0.211	J	Yes	0.41	J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.0931		Yes	0.00476	J	Yes	0.106	J	Yes	0.207	J	Yes	0.0732		Yes	0.0104	J	Yes	0.101	J	Yes	0.192	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	3.82		Yes	1.97	J	Yes	2.02	J	Yes	2.06	J	Yes	2		Yes	1.84	J	Yes	1.88	J	Yes	1.92	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	3.19	J	Yes	1.72	J	Yes	1.83	J	Yes	1.94	J	Yes	1.72	J	Yes	1.63	J	Yes	1.72	J	Yes	1.81	J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	3.53		Yes	1.89	J	Yes	1.94	J	Yes	1.98	J	Yes	1.93		Yes	1.78	J	Yes	1.82	J	Yes	1.86	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	6.82		Yes	2.86	J	Yes	2.86	J	Yes	2.87	J	Yes	2.86		Yes	2.64	J	Yes	2.66	J	Yes	2.68	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	10.1		Yes	3.87	J	Yes	3.87	J	Yes	3.88	J	Yes	3.87		Yes	3.72	J	Yes	3.73	J	Yes	3.75	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	8.08		Yes	2.69	J	Yes	2.69	J	Yes	2.69	J	Yes	2.69		Yes	2.63	J	Yes	2.64	J	Yes	2.65	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	6.73		Yes	2.44	J	Yes	2.45	J	Yes	2.45	J	Yes	2.45		Yes	2.34	J	Yes	2.36	J	Yes	2.37	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	11.9		Yes	4.49	J	Yes	4.5	J	Yes	4.51	J	Yes	4.5		Yes	4.31	J	Yes	4.33	J	Yes	4.34	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	15.5		Yes	5.1	J	Yes	5.11	J	Yes	5.11	J	Yes	5.1		Yes	4.97	J	Yes	4.99	J	Yes	5.02	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	10.1		Yes	3.38	J	Yes	3.39	J	Yes	3.4	J	Yes	3.38		Yes	3.29	J	Yes	3.31	J	Yes	3.33	J
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	6.34		Yes	2.19	J	Yes	2.21	J	Yes	2.23	J	Yes	2.2		Yes	2.12	J	Yes	2.15	J	Yes	2.17	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.546	J	Yes	0.113	J	Yes	0.254	J	Yes	0.395	J	Yes	0.113	J	Yes	0.0928	J	Yes	0.225	J	Yes	0.357	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.533		Yes	0.156	J	Yes	0.205	J	Yes	0.253	J	Yes	0.159		Yes	0.15	J	Yes	0.195	J	Yes	0.239	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.549		Yes	0.177	J	Yes	0.201	J	Yes	0.225	J	Yes	0.178		Yes	0.174	J	Yes	0.195	J	Yes	0.216	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.345		Yes	0.0952	J	Yes	0.159	J	Yes	0.223	J	Yes	0.156		Yes	0.094	J	Yes	0.151	J	Yes	0.208	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.499		Yes	0.194	J	Yes	0.222	J	Yes	0.25	J	Yes	0.195		Yes	0.192	J	Yes	0.214	J	Yes	0.236	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.3		Yes	0.0443	J	Yes	0.142	J	Yes	0.24	J	Yes	0.108		Yes	0.0444	J	Yes	0.134	J	Yes	0.223	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	1.09		Yes	0.337	J	Yes	0.382	J	Yes	0.427	J	Yes	0.341		Yes	0.338	J	Yes	0.373	J	Yes	0.407	J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.99		Yes	0.322	J	Yes	0.346	J	Yes	0.37	J	Yes	0.323		Yes	0.325	J	Yes	0.341	J	Yes	0.357	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	4.47	J	Yes	1.83	J	Yes	1.88	J	Yes	1.94	J	Yes	1.83	J	Yes	1.68	J	Yes	1.75	J	Yes	1.81	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	6.35		Yes	2.41	J	Yes	2.43	J	Yes	2.46	J	Yes	2.42		Yes	2.32	J	Yes	2.34	J	Yes	2.37	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	5.17		Yes	1.72	J	Yes	1.73	J	Yes	1.74	J	Yes	1.72		Yes	1.68	J	Yes	1.7	J	Yes	1.71	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	4.12		Yes	1.48	J	Yes	1.51	J	Yes	1.54	J	Yes	1.51		Yes	1.42	J	Yes	1.46	J	Yes	1.49	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	7.39		Yes	2.79	J	Yes	2.81	J	Yes	2.82	J	Yes	2.8		Yes	2.68	J	Yes	2.7	J	Yes	2.71	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	9.39		Yes	3.07	J	Yes	3.11	J	Yes	3.15	J	Yes	3.09		Yes	2.99	J	Yes	3.04	J	Yes	3.09	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	6.32		Yes	2.1	J	Yes	2.13	J	Yes	2.15	J	Yes	2.1		Yes	2.05	J	Yes	2.08	J	Yes	2.1	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	4.11		Yes	1.41	J	Yes	1.43	J	Yes	1.45	J	Yes	1.42		Yes	1.37	J	Yes	1.4	J	Yes	1.41	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	10.2		Yes	2.93	J	Yes	2.93	J	Yes	2.93	J	Yes	2.93		Yes	3.03	J	Yes	3.04	J	Yes	3.06	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	7.78		Yes	2.4	J	Yes	2.41	J	Yes	2.41	J	Yes	2.4		Yes	2.39	J	Yes	2.41	J	Yes	2.42	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	2.29		Yes	0.948	J	Yes	0.952	J	Yes	0.956	J	Yes	0.951		Yes	0.907	J	Yes	0.918	J	Yes	0.929	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	12.7		Yes	3.53	J	Yes	3.54	J	Yes	3.55	J	Yes	3.54		Yes	3.51	J	Yes	3.52	J	Yes	3.54	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	9.03		Yes	2.45	J	Yes	2.46	J	Yes	2.47	J	Yes	2.45		Yes	2.45	J	Yes	2.47	J	Yes	2.49	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	1.63		Yes	0.417	J	Yes	0.448	J	Yes	0.478	J	Yes	0.421		Yes	0.457	J	Yes	0.48	J	Yes	0.502	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	1.76		Yes	0.564	J	Yes	0.573	J	Yes	0.581	J	Yes	0.567		Yes	0.545	J	Yes	0.557	J	Yes	0.569	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.492		Yes	0.176	J	Yes	0.234	J	Yes	0.293	J	Yes	0.184		Yes	0.175	J	Yes	0.226	J	Yes	0.276	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	1.73		Yes	0.462	J	Yes	0.504	J	Yes	0.546	J	Yes	0.467		Yes	0.502	J	Yes	0.53	J	Yes	0.558	J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.899		Yes	0.118	J	Yes	0.223	J	Yes	0.328	J	Yes	0.195		Yes	0.124	J	Yes	0.221	J	Yes	0.318	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	6.38		Yes	1.81	J	Yes	1.82	J	Yes	1.84	J	Yes	1.81		Yes	1.88	J	Yes	1.9	J	Yes	1.92	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	5.62		Yes	1.74	J	Yes	1.75	J	Yes	1.75	J	Yes	1.74		Yes	1.73	J	Yes	1.74	J	Yes	1.76	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	1.51		Yes	0.614	J	Yes	0.641	J	Yes	0.669	J	Yes	0.619		Yes	0.59	J	Yes	0.618	J	Yes	0.646	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	9.16		Yes	2.54	J	Yes	2.56	J	Yes	2.58	J	Yes	2.55		Yes	2.54	J	Yes	2.55	J	Yes	2.58	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	5.66		Yes	1.48	J	Yes	1.53	J	Yes	1.58	J	Yes	1.52		Yes	1.49	J	Yes	1.54	J	Yes	1.59	J

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	(ND=DL)	Dioxin TEQ-Mammal (KM) ng/kg		
					Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	Yes	1.62		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes	5.84		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes	8.31		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	Yes	8.43		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes	2.97		Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes	8.44		Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	Yes	0.831		Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes	4.89		Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	Yes	0.138		Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	Yes	2.73		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes	2.97		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes	2.77		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes	3.07		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	Yes	0.104		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	Yes	0.0127	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	Yes	0.0802		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes	1.86		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes	1.64	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes	1.81		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	Yes	2.65		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes	3.72		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes	2.63		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	Yes	2.35		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	Yes	4.32		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes	4.98		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	Yes	3.3		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	Yes	2.14		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	Yes	0.0928	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	Yes	0.157		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	Yes	0.175		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	Yes	0.153		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	Yes	0.194		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	Yes	0.106		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	Yes	0.341		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	Yes	0.327		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	Yes	1.69	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes	2.32		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes	1.68		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	Yes	1.45		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	Yes	2.69		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes	3.02		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes	2.06		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	Yes	1.38		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	Yes	3.04		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes	2.4		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes	0.916		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes	3.52		Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	Yes	2.46		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	Yes	0.463		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	Yes	0.55		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	Yes	0.184		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	Yes	0.509		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	Yes	0.202		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	Yes	1.89		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes	1.74		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes	0.599		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes	2.55		Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes	1.53		Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	Total TEQ-Bird pg/g			Total TEQ-Bird (ND=0.5DL) pg/g			Total TEQ-Bird (ND=DL) pg/g			Total TEQ-Bird (KM) ng/kg			Total TEQ-Fish pg/g			Total TEQ-Fish (ND=0.5DL) pg/g		
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	20.7	J	Yes	20.7	J	Yes	20.7	J	Yes	20.7		Yes	2.47	J	Yes	2.48	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	68.1	J	Yes	68.1	J	Yes	68.2	J	Yes	68.1		Yes	7.85	J	Yes	7.87	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	70.2	J	Yes	70.3	J	Yes	70.3	J	Yes	70.3		Yes	12.1	J	Yes	12.1	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	67.8	J	Yes	67.8	J	Yes	67.9	J	Yes	67.8		Yes	11.8	J	Yes	11.8	J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	37.8	J	Yes	37.8	J	Yes	37.8	J	Yes	37.8		Yes	4.57	J	Yes	4.58	J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	263	J	Yes	263	J	Yes	263	J	Yes	263		Yes	12.6	J	Yes	12.6	J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	29.4	J	Yes	29.4	J	Yes	29.5	J	Yes	29.4		Yes	1.21	J	Yes	1.28	J	Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	154	J	Yes	154	J	Yes	154	J	Yes	154		Yes	7.29	J	Yes	7.32	J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	16.1	J	Yes	16.2	J	Yes	16.2	J	Yes	16.1		Yes	0.249	J	Yes	0.318	J	Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	147	J	Yes	147	J	Yes	147	J	Yes	147		Yes	3.46	J	Yes	3.47	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	185	J	Yes	185	J	Yes	185	J	Yes	185		Yes	5.53	J	Yes	5.54	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	152	J	Yes	152	J	Yes	152	J	Yes	152		Yes	4.86	J	Yes	4.88	J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	165	J	Yes	165	J	Yes	165	J	Yes	165		Yes	5.25	J	Yes	5.26	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	8.52	J	Yes	8.62	J	Yes	8.71	J	Yes	8.54		Yes	0.125	J	Yes	0.231	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	9.28	J	Yes	9.51	J	Yes	9.74	J	Yes	9.31		Yes	0.106	J	Yes	0.33	J	Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	6.04	J	Yes	6.15	J	Yes	6.25	J	Yes	6.05		Yes	0.0665	J	Yes	0.168	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	117	J	Yes	117	J	Yes	117	J	Yes	117		Yes	3.44	J	Yes	3.49	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	93.3	J	Yes	93.4	J	Yes	93.5	J	Yes	93.4		Yes	2.91	J	Yes	3.01	J	Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	97.9	J	Yes	98	J	Yes	98	J	Yes	97.9		Yes	3.06	J	Yes	3.11	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	95.9	J	Yes	95.9	J	Yes	96	J	Yes	95.9		Yes	3.87	J	Yes	3.88	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	149	J	Yes	149	J	Yes	149	J	Yes	149		Yes	5.48	J	Yes	5.49	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	122	J	Yes	122	J	Yes	122	J	Yes	122		Yes	3.83	J	Yes	3.83	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	100	J	Yes	100	J	Yes	100	J	Yes	100		Yes	3.32	J	Yes	3.32	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	146	J	Yes	146	J	Yes	146	J	Yes	146		Yes	6.08	J	Yes	6.08	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	180	J	Yes	180	J	Yes	180	J	Yes	180		Yes	6.81	J	Yes	6.82	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	137	J	Yes	137	J	Yes	137	J	Yes	137		Yes	4.66	J	Yes	4.67	J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	89.3	J	Yes	89.3	J	Yes	89.3	J	Yes	89.3		Yes	2.99	J	Yes	3.01	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	10.7	J	Yes	10.8	J	Yes	11	J	Yes	10.7		Yes	0.213	J	Yes	0.354	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	10.4	J	Yes	10.4	J	Yes	10.5	J	Yes	10.4		Yes	0.242	J	Yes	0.29	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	8.16	J	Yes	8.18	J	Yes	8.19	J	Yes	8.16		Yes	0.247	J	Yes	0.272	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	6.45	J	Yes	6.51	J	Yes	6.56	J	Yes	6.46		Yes	0.142	J	Yes	0.206	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	6.8	J	Yes	6.82	J	Yes	6.84	J	Yes	6.81		Yes	0.254	J	Yes	0.283	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	4.14	J	Yes	4.23	J	Yes	4.32	J	Yes	4.15		Yes	0.0801	J	Yes	0.178	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	12.2	J	Yes	12.3	J	Yes	12.3	J	Yes	12.2		Yes	0.454	J	Yes	0.499	J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	13.4	J	Yes	13.4	J	Yes	13.4	J	Yes	13.4		Yes	0.451	J	Yes	0.476	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	64	J	Yes	64	J	Yes	64.1	J	Yes	64		Yes	2.5	J	Yes	2.56	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	94.7	J	Yes	94.7	J	Yes	94.7	J	Yes	94.7		Yes	3.43	J	Yes	3.45	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	78.1	J	Yes	78.1	J	Yes	78.1	J	Yes	78.1		Yes	2.45	J	Yes	2.46	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	61.7	J	Yes	61.8	J	Yes	61.8	J	Yes	61.7		Yes	2.02	J	Yes	2.05	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	90.9	J	Yes	90.9	J	Yes	90.9	J	Yes	90.9		Yes	3.77	J	Yes	3.78	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	109	J	Yes	109	J	Yes	109	J	Yes	109		Yes	4.1	J	Yes	4.15	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	84.6	J	Yes	84.6	J	Yes	84.6	J	Yes	84.6		Yes	2.89	J	Yes	2.92	J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	57.6	J	Yes	57.6	J	Yes	57.6	J	Yes	57.6		Yes	1.93	J	Yes	1.95	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	174	J	Yes	174	J	Yes	174	J	Yes	174		Yes	4.02	J	Yes	4.02	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	115	J	Yes	115	J	Yes	115	J	Yes	115		Yes	3.44	J	Yes	3.45	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	50.1	J	Yes	50.2	J	Yes	50.2	J	Yes	50.2		Yes	1.43	J	Yes	1.44	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	149	J	Yes	149	J	Yes	149	J	Yes	149		Yes	5.12	J	Yes	5.12	J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	91.4	J	Yes	91.4	J	Yes	91.4	J	Yes	91.4		Yes	3.25	J	Yes	3.26	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	31.8	J	Yes	31.8	J	Yes	31.8	J	Yes	31.8		Yes	0.609	J	Yes	0.64	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	28.7	J	Yes	28.7	J	Yes	28.7	J	Yes	28.7		Yes	0.796	J	Yes	0.805	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	10.2	J	Yes	10.2	J	Yes	10.3	J	Yes	10.2		Yes	0.277	J	Yes	0.336	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	24.9	J	Yes	24.9	J	Yes	24.9	J	Yes	24.9		Yes	0.701	J	Yes	0.743	J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	12.3	J	Yes	12.4	J	Yes	12.5	J	Yes	12.3		Yes	0.22	J	Yes	0.325	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	111	J	Yes	111	J	Yes	111	J	Yes	111		Yes	2.5	J	Yes	2.51	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	84	J	Yes	84	J	Yes	84	J	Yes	84		Yes	2.49	J	Yes	2.5	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	32.8	J	Yes	32.9	J	Yes	32.9	J	Yes	32.9		Yes	0.931	J	Yes	0.962	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	109	J	Yes	109	J	Yes	109	J	Yes	109		Yes	3.69	J	Yes	3.71	J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	58.7	J	Yes	58.7	J	Yes	58.7	J	Yes	58.7		Yes	2	J	Yes	2.04	J	Yes

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Field Sample ID	Total TEQ-Fish (ND=DL) pg/g			Total TEQ-Fish (KM) ng/kg			Total TEQ-Mammal pg/g			Total TEQ-Mammal (ND=0.5DL) pg/g			Total TEQ-Mammal (ND=DL) pg/g			Total TEQ-Mammal (KM) ng/kg			Total HpCDD ng/kg			Total HxCDD ng/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	2.49	J	Yes	2.47		Yes	11.2	J	Yes	11.3	J	Yes	11.4	J	Yes	11.2		Yes	0.741		Yes	1.48	J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	7.89	J	Yes	7.85		Yes	27	J	Yes	27.4	J	Yes	27.7	J	Yes	27.1		Yes	2.65	EMPC-J	Yes	3.07	EMPC-J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	12.1	J	Yes	12.1		Yes	53.7	J	Yes	54.2	J	Yes	54.8	J	Yes	53.8		Yes	1.36	EMPC-J	Yes	3.98	EMPC-J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	11.9	J	Yes	11.8		Yes	47.9	J	Yes	48.3	J	Yes	48.8	J	Yes	48		Yes	1.79		Yes	4.51	EMPC-J
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	4.59	J	Yes	4.57		Yes	20.3	J	Yes	20.6	J	Yes	20.8	J	Yes	20.4		Yes	1.47	EMPC-J	Yes	2.66	EMPC-J
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	12.6	J	Yes	12.6		Yes	69.1	J	Yes	69.3	J	Yes	69.5	J	Yes	69.2		Yes	3.29		Yes	3.85	J
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	1.35	J	Yes	1.23		Yes	6.5	J	Yes	6.6	J	Yes	6.7	J	Yes	6.54		Yes	0.157	U	No	0.159	UJ
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	7.36	J	Yes	7.3		Yes	39.9	J	Yes	40.1	J	Yes	40.2	J	Yes	40		Yes	1.79		Yes	2.09	J
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	0.387	J	Yes	0.265		Yes	1.85	J	Yes	1.94	J	Yes	2.03	J	Yes	1.88		Yes	0.756	U	No	0.0912	UJ
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	3.47	J	Yes	3.47		Yes	13.5	J	Yes	13.6	J	Yes	13.6	J	Yes	13.5		Yes	2.03		Yes	1.29	EMPC-J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	5.55	J	Yes	5.54		Yes	31.6	J	Yes	32	J	Yes	32.3	J	Yes	31.7		Yes	0.371		Yes	0.61	EMPC-J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	4.91	J	Yes	4.87		Yes	26.8	J	Yes	27.1	J	Yes	27.4	J	Yes	26.9		Yes	0.417	EMPC-J	Yes	0.463	EMPC-J
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	5.26	J	Yes	5.25		Yes	27.7	J	Yes	28	J	Yes	28.4	J	Yes	27.8		Yes	0.458	EMPC-J	Yes	0.585	EMPC-J
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	0.337	J	Yes	0.204		Yes	0.966	J	Yes	1.09	J	Yes	1.21	J	Yes	0.989		Yes	0.096	EMPC-J	Yes	0.0759	U
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	0.555	J	Yes	0.264		Yes	1.2	J	Yes	1.62	J	Yes	2.04	J	Yes	1.25		Yes	0.152	U	No	0.145	U
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	0.269	J	Yes	0.141		Yes	0.75	J	Yes	0.852	J	Yes	0.955	J	Yes	0.768		Yes	0.229		Yes	0.0571	U
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	3.54	J	Yes	3.48		Yes	19.8	J	Yes	20.1	J	Yes	20.3	J	Yes	19.8		Yes	0.265	EMPC-J	Yes	0.389	EMPC-J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	3.12	J	Yes	2.98		Yes	16.3	J	Yes	16.6	J	Yes	17	J	Yes	16.4		Yes	0.277	EMPC-J	Yes	0.303	EMPC-J
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	3.15	J	Yes	3.09		Yes	16.3	J	Yes	16.5	J	Yes	16.8	J	Yes	16.4		Yes	0.361	EMPC-J	Yes	0.35	EMPC-J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	3.88	J	Yes	3.87		Yes	15.7	J	Yes	15.8	J	Yes	15.9	J	Yes	15.8		Yes	5.97		Yes	1.93	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	5.49	J	Yes	5.48		Yes	24.9	J	Yes	25	J	Yes	25	J	Yes	24.9		Yes	1.54		Yes	1.48	EMPC-J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	3.83	J	Yes	3.83		Yes	16.8	J	Yes	16.9	J	Yes	17	J	Yes	16.8		Yes	2.02		Yes	1.11	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	3.32	J	Yes	3.32		Yes	13.1	J	Yes	13.2	J	Yes	13.3	J	Yes	13.2		Yes	2.47		Yes	1.35	EMPC-J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	6.09	J	Yes	6.08		Yes	23.9	J	Yes	24.1	J	Yes	24.3	J	Yes	24		Yes	3.99		Yes	1.88	EMPC-J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	6.83	J	Yes	6.82		Yes	27.5	J	Yes	27.6	J	Yes	27.7	J	Yes	27.5		Yes	2.36		Yes	2.05	J
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	4.69	J	Yes	4.67		Yes	19.4	J	Yes	19.5	J	Yes	19.6	J	Yes	19.4		Yes	3.37		Yes	1.75	EMPC-J
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	3.02	J	Yes	3		Yes	11.8	J	Yes	11.9	J	Yes	12	J	Yes	11.8		Yes	2.94		Yes	1.27	EMPC-J
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	0.495	J	Yes	0.326		Yes	1.28	J	Yes	1.43	J	Yes	1.58	J	Yes	1.31		Yes	0.121	U	No	0.0834	UJ
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	0.338	J	Yes	0.251		Yes	1.15	J	Yes	1.2	J	Yes	1.26	J	Yes	1.16		Yes	0.18		Yes	0.0721	UJ
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	0.296	J	Yes	0.252		Yes	1.04	J	Yes	1.08	J	Yes	1.11	J	Yes	1.05		Yes	0.107		Yes	0.111	UJ
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	0.27	J	Yes	0.208		Yes	0.614	J	Yes	0.683	J	Yes	0.752	J	Yes	0.632		Yes	0.0683	U	No	0.0805	UJ
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	0.311	J	Yes	0.26		Yes	0.922	J	Yes	0.96	J	Yes	0.997	J	Yes	0.933		Yes	0.208	EMPC-J	Yes	0.0695	UJ
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	0.275	J	Yes	0.149		Yes	0.497	J	Yes	0.594	J	Yes	0.692	J	Yes	0.517		Yes	0.23	EMPC-J	Yes	0.0697	UJ
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	0.544	J	Yes	0.464		Yes	1.79	J	Yes	1.85	J	Yes	1.92	J	Yes	1.81		Yes	0.256	EMPC-J	Yes	0.0893	UJ
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	0.5	J	Yes	0.458		Yes	1.92	J	Yes	1.96	J	Yes	2	J	Yes	1.93		Yes	0.256		Yes	0.132	UJ
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	2.61	J	Yes	2.54		Yes	10.3	J	Yes	10.4	J	Yes	10.5	J	Yes	10.4		Yes	3.75		Yes	1.22	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	3.47	J	Yes	3.43		Yes	15.6	J	Yes	15.7	J	Yes	15.7	J	Yes	15.6		Yes	1.01		Yes	0.914	EMPC-J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	2.47	J	Yes	2.45		Yes	10.7	J	Yes	10.8	J	Yes	10.9	J	Yes	10.7		Yes	1.28		Yes	0.703	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	2.07	J	Yes	2.05		Yes	7.99	J	Yes	8.08	J	Yes	8.17	J	Yes	8.06		Yes	1.47		Yes	0.814	EMPC-J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	3.8	J	Yes	3.78		Yes	14.8	J	Yes	14.9	J	Yes	15.1	J	Yes	14.9		Yes	2.49	EMPC-J	Yes	1.15	EMPC-J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	4.19	J	Yes	4.14		Yes	16.6	J	Yes	16.7	J	Yes	16.8	J	Yes	16.7		Yes	1.5	EMPC-J	Yes	1.24	J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	2.95	J	Yes	2.9		Yes	12	J	Yes	12.1	J	Yes	12.2	J	Yes	12		Yes	2.06	EMPC-J	Yes	1.03	EMPC-J
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	1.97	J	Yes	1.94		Yes	7.68	J	Yes	7.76	J	Yes	7.83	J	Yes	7.68		Yes	1.82		Yes	0.768	EMPC-J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	4.03	J	Yes	4.02		Yes	14.2	J	Yes	14.3	J	Yes	14.5	J	Yes	14.2		Yes	9.54		Yes	2.33	EMPC-J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	3.45	J	Yes	3.45		Yes	15	J	Yes	15.1	J	Yes	15.3	J	Yes	15.1		Yes	4.1		Yes	1.82	J
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	1.44	J	Yes	1.43		Yes	6.68	J	Yes	6.76	J	Yes	6.85	J	Yes	6.71		Yes	3.15		Yes	0.902	J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	5.13	J	Yes	5.12		Yes	23.1	J	Yes	23.2	J	Yes	23.4	J	Yes	23.2		Yes	3.13		Yes	2.54	EMPC-J
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	3.27	J	Yes	3.25		Yes	12.1	J	Yes	12.2	J	Yes	12.3	J	Yes	12.2		Yes	2.54		Yes	1.69	EMPC-J
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	0.671	J	Yes	0.615		Yes	2.4	J	Yes	2.45	J	Yes	2.5	J	Yes	2.42		Yes	0.27	EMPC-J	Yes	0.168	UJ
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	0.813	J	Yes	0.8		Yes	3.2	J	Yes	3.24	J	Yes	3.28	J	Yes	3.22		Yes	0.41		Yes	0.336	UJ
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	0.394	J	Yes	0.292		Yes	1.39	J	Yes	1.46	J	Yes	1.53	J	Yes	1.41		Yes	0.302	EMPC-J	Yes	0.0731	UJ
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	0.785	J	Yes	0.713		Yes	3.45	J	Yes	3.51	J	Yes	3.57	J	Yes	3.48		Yes	0.325		Yes	0.135	UJ
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	0.43	J	Yes	0.303		Yes	1.35	J	Yes	1.47	J	Yes	1.59	J	Yes	1.39		Yes	0.336		Yes	0.0805	UJ
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	2.53	J	Yes	2.5		Yes	8.94	J	Yes	9.01	J	Yes	9.15	J	Yes	8.95		Yes	5.41	EMPC-J	Yes	1.33	EMPC-J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	2.5	J	Yes	2.5		Yes	10.8	J	Yes	10.8	J	Yes	11	J	Yes	10.8		Yes	2.78		Yes	1.23	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	0.987	J	Yes	0.937		Yes	4.39	J	Yes	4.47	J	Yes	4.55	J	Yes	4.42		Yes	1.92	EMPC-J	Yes	0.527	J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	3.73	J	Yes	3.7		Yes	16.8	J	Yes	16.8	J	Yes	17	J	Yes	16.8		Yes	2.22		Yes	1.74	EMPC-J
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	2.09	J	Yes	2.03		Yes	7.65	J	Yes	7.76	J	Yes	7.87	J	Yes	7.72		Yes	1.63		Yes	1.01	EMPC-J

BERA Tissue Chemistry Data from Above Dundee Dam

						Total PeCDD			Total TCDD			Total HpCDF			Total HxCDF			Total PeCDF			Total TCDF		
						ng/kg			ng/kg			ng/kg			ng/kg			ng/kg			ng/kg		
Species	Tissue Type	Event	Reach	Field Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	Yes	0.68	EMPC-J	Yes	0.477	EMPC-J	Yes	0.16		Yes	0.366	EMPC-J	Yes	1.74	EMPC-J	Yes	1.29	EMPC-J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	Yes	1.29	EMPC-J	Yes	3.54		Yes	0.719	EMPC-J	Yes	1.87	EMPC-J	Yes	3.46	EMPC-J	Yes	1.86	EMPC-J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	Yes	2.21	EMPC-J	Yes	4.99		Yes	0.282	J	Yes	0.8	EMPC-J	Yes	3.35	EMPC-J	Yes	0.424	EMPC-J	Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	Yes	2.33	EMPC-J	Yes	4.93		Yes	0.336	J	Yes	1.09	EMPC-J	Yes	3.77	J	Yes	0.585		Yes
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	Yes	1.19	EMPC-J	Yes	0.911	EMPC-J	Yes	0.346	J	Yes	0.945	EMPC-J	Yes	2.33	EMPC-J	Yes	0.711	EMPC-J	Yes
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	Yes	2.62	EMPC-J	Yes	3.55		Yes	1.24		Yes	3.57	EMPC-J	Yes	7.29	EMPC-J	Yes	27	EMPC-J	Yes
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	No	0.227	EMPC-J	Yes	0.311	U	No	0.112		Yes	0.167	U	No	0.316		Yes	1.89		Yes
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	Yes	1.5	EMPC-J	Yes	1.97		Yes	0.714		Yes	1.95	EMPC-J	Yes	4.04	EMPC-J	Yes	15.3	EMPC-J	Yes
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	No	0.0627	U	No	0.198	U	No	0.156		Yes	0.171	EMPC-J	Yes	0.202	EMPC-J	Yes	0.364		Yes
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	Yes	0.57	EMPC-J	Yes	1.37	EMPC-J	Yes	0.621	EMPC-J	Yes	1.33	EMPC-J	Yes	3.06		Yes	11.2	EMPC-J	Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	Yes	0.618	EMPC-J	Yes	1.52		Yes	0.47		Yes	0.48	EMPC-J	Yes	2.16		Yes	4		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	Yes	0.648	EMPC-J	Yes	1.41		Yes	0.257		Yes	0.444	EMPC-J	Yes	1.66	EMPC-J	Yes	3		Yes
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	Yes	0.716		Yes	1.56		Yes	0.137		Yes	0.452	EMPC-J	Yes	2.11		Yes	2.22		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	No	0.072	U	No	0.127		Yes	0.0627	U	No	0.0575	U	No	0.0726	EMPC-J	Yes	0.111		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	No	0.148	U	No	0.125	U	No	0.0984	U	No	0.114	U	No	0.0894	U	No	0.364		Yes
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	No	0.0581	U	No	0.0948		Yes	0.0477	U	No	0.0467	U	No	0.0458	U	No	0.0922		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	Yes	0.393	EMPC-J	Yes	0.982		Yes	0.301		Yes	0.306	EMPC-J	Yes	1.35	EMPC-J	Yes	2.5		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	Yes	0.412	EMPC-J	Yes	0.856		Yes	0.172		Yes	0.285	EMPC-J	Yes	0.996	EMPC-J	Yes	1.92		Yes
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	Yes	0.426		Yes	0.942		Yes	0.0893		Yes	0.271	EMPC-J	Yes	1.23		Yes	1.32		Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	Yes	0.724	EMPC-J	Yes	1.41	EMPC-J	Yes	2.3		Yes	2.73	EMPC-J	Yes	3.79	EMPC-J	Yes	6.13	EMPC-J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	Yes	1.11	EMPC-J	Yes	1.57	EMPC-J	Yes	0.692	EMPC-J	Yes	2.1	EMPC-J	Yes	3.45	EMPC-J	Yes	7.82	EMPC-J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	Yes	0.771	J	Yes	0.993	EMPC-J	Yes	0.823		Yes	1.39	EMPC-J	Yes	2.79		Yes	6.26	EMPC-J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	Yes	0.662	EMPC-J	Yes	0.961	EMPC-J	Yes	0.871	EMPC-J	Yes	1.51	EMPC-J	Yes	2.36	EMPC-J	Yes	5.04	EMPC-J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	Yes	1.21	EMPC-J	Yes	1.96	EMPC-J	Yes	1.7		Yes	2.78	EMPC-J	Yes	4.39	EMPC-J	Yes	9.68	EMPC-J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	Yes	1.31	EMPC-J	Yes	1.93	EMPC-J	Yes	0.948		Yes	3.36	EMPC-J	Yes	6.17		Yes	15.4	EMPC-J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	Yes	0.931	J	Yes	1.26	EMPC-J	Yes	1.44	EMPC-J	Yes	2.42	EMPC-J	Yes	4.33		Yes	9.12	EMPC-J	Yes
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	Yes	0.599	EMPC-J	Yes	1.01	EMPC-J	Yes	1.22		Yes	1.45		Yes	2.6		Yes	6.18	EMPC-J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	No	0.111	U	No	0.0832	U	No	0.0671	U	No	0.0996	U	No	0.191		Yes	0.355	EMPC-J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	No	0.0555	U	No	0.185	U	No	0.0404	U	No	0.0484	EMPC-J	Yes	0.119		Yes	0.333		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	No	0.0688	J	Yes	0.123	U	No	0.0406	U	No	0.0436	U	No	0.0964	EMPC-J	Yes	0.341		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	No	0.0673	U	No	0.127	U	No	0.0397	U	No	0.0561	U	No	0.0618		Yes	0.222		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	No	0.0572	EMPC-J	Yes	0.177	U	No	0.0376	U	No	0.0597	U	No	0.0825	EMPC-J	Yes	0.277		Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	No	0.0636	U	No	0.084	U	No	0.0615	U	No	0.0759	U	No	0.065		Yes	0.29	EMPC-J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	No	0.117	J	Yes	0.228	U	No	0.0991	U	No	0.106	EMPC-J	Yes	0.177		Yes	0.801	EMPC-J	Yes
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	No	0.11	J	Yes	0.178	U	No	0.042	U	No	0.0614		Yes	0.176		Yes	0.685		Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	Yes	0.473	EMPC-J	Yes	0.897	EMPC-J	Yes	1.45		Yes	1.72	EMPC-J	Yes	2.44	EMPC-J	Yes	3.96	EMPC-J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	Yes	0.686	EMPC-J	Yes	0.991	EMPC-J	Yes	0.429	EMPC-J	Yes	1.3	EMPC-J	Yes	2.14	EMPC-J	Yes	4.89	EMPC-J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	Yes	0.5	J	Yes	0.633	EMPC-J	Yes	0.513		Yes	0.862	EMPC-J	Yes	1.75	EMPC-J	Yes	3.98	EMPC-J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	Yes	0.405	EMPC-J	Yes	0.594	EMPC-J	Yes	0.523	EMPC-J	Yes	0.904	EMPC-J	Yes	1.42	EMPC-J	Yes	3.07	EMPC-J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	Yes	0.753	EMPC-J	Yes	1.22	EMPC-J	Yes	1.03		Yes	1.69	EMPC-J	Yes	2.68	EMPC-J	Yes	5.96	EMPC-J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	Yes	0.796	EMPC-J	Yes	1.17	EMPC-J	Yes	0.579		Yes	2.02	EMPC-J	Yes	3.72		Yes	9.33	EMPC-J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	Yes	0.589	J	Yes	0.779	EMPC-J	Yes	0.856	EMPC-J	Yes	1.45	EMPC-J	Yes	2.59		Yes	5.63	EMPC-J	Yes
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	Yes	0.395	EMPC-J	Yes	0.626	EMPC-J	Yes	0.72		Yes	0.871		Yes	1.59		Yes	3.89	EMPC-J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	Yes	0.632	EMPC-J	Yes	1.62	EMPC-J	Yes	3.16		Yes	3.19		Yes	4.12		Yes	9.83	EMPC-J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	Yes	0.672	J	Yes	1.01	EMPC-J	Yes	1.7		Yes	2.42	EMPC-J	Yes	3.14		Yes	7.36	EMPC-J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	Yes	0.254	EMPC-J	Yes	0.606	EMPC-J	Yes	1.18	EMPC-J	Yes	0.991	EMPC-J	Yes	1.24	EMPC-J	Yes	1.79	EMPC-J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	Yes	1.03	EMPC-J	Yes	1.63		Yes	1.36	EMPC-J	Yes	3.19	EMPC-J	Yes	6.97	EMPC-J	Yes	17.2	EMPC-J	Yes
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	Yes	0.843	EMPC-J	Yes	0.794	EMPC-J	Yes	0.887		Yes	2.12	EMPC-J	Yes	3.03	EMPC-J	Yes	10.5	EMPC-J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	No	0.0941	EMPC-J	Yes	0.31	U	No	0.0514		Yes	0.136		Yes	0.42	EMPC-J	Yes	1.37		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	No	0.177	J	Yes	0.257	U	No	0.0935	EMPC-J	Yes	0.19	EMPC-J	Yes	0.485	EMPC-J	Yes	1.44		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	No	0.112	EMPC-J	Yes	0.0879	U	No	0.0601	U	No	0.0803		Yes	0.0828	EMPC-J	Yes	0.286		Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	No	0.163	EMPC-J	Yes	0.258	U	No	0.11		Yes	0.169		Yes	0.672	EMPC-J	Yes	1.93	EMPC-J	Yes
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	No	0.0801	U	No	0.0763	U	No	0.0846	EMPC-J	Yes	0.0795	EMPC-J	Yes	0.361		Yes	0.921	EMPC-J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	Yes	0.392	EMPC-J	Yes	0.967	EMPC-J	Yes	1.77		Yes	1.83		Yes	2.47	EMPC-J	Yes	6.06	EMPC-J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	Yes	0.494	J	Yes	0.694	EMPC-J	Yes	1.12	EMPC-J	Yes	1.62	EMPC-J	Yes	2.19	EMPC-J	Yes	5.23	EMPC-J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	Yes	0.193	EMPC-J	Yes	0.363	EMPC-J	Yes	0.682	EMPC-J	Yes	0.597	EMPC-J	Yes	0.739	EMPC-J	Yes	1.14	EMPC-J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	Yes	0.75	EMPC-J	Yes	1.15		Yes	0.956	EMPC-J	Yes	2.21	EMPC-J	Yes	4.94	EMPC-J	Yes	12.3	EMPC-J	Yes
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	Yes	0.511	EMPC-J	Yes	0.481	EMPC-J	Yes	0.555	EMPC-J	Yes	1.28	EMPC-J	Yes	1.93	EMPC-J	Yes	6.53	EMPC-J	Yes

DO NOT EDIT
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BERA Tissue Chemistry Data from Above Dundee Dam

Qualifier	Definition
J	estimated concentration
U	not detected at given concentration
N	tentative identification
EMPC	estimated maximum possible concentration
R	rejected
T(#)	partial sum where the number in parentheses indicates the number of constituent parameters missing from the sum
C	data refers to the first of two or more co-eluting congeners
C###	ure

BERA Tissue Chemistry Data from Above Dundee Dam

					1,1'-Biphenyl			2,2'-Oxybis(1-chloropropane)			2,4,5-Trichlorophenol			2,4,6-Trichlorophenol		
					µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	3990	U	No	3990	U	No	3990	U	No	3990	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	3980	U	No	3980	U	No	3980	U	No	3980	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	4000	U	No	4000	U	No	4000	U	No	4000	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	3960	U	No	3960	U	No	3960	U	No	3960	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	3990	U	No	3990	U	No	3990	U	No	3990	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	3950	U	No	3950	U	No	3950	U	No	3950	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	3960	U	No	3960	U	No	3960	U	No	3960	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	3980	U	No	3980	U	No	3980	U	No	3980	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	3920	U	No	3920	U	No	3920	U	No	3920	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	3990	U	No	3990	U	No	3990	U	No	3990	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	3940	U	No	3940	U	No	3940	U	No	3940	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	3950	U	No	3950	U	No	3950	U	No	3950	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	3950	U	No	3950	U	No	3950	U	No	3950	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	3950	U	No	3950	U	No	3950	U	No	3950	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	3940	U	No	3940	U	No	3940	U	No	3940	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	3920	U	No	3920	U	No	3920	U	No	3920	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	3960	U	No	3960	U	No	3960	U	No	3960	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	3970	U	No	3970	U	No	3970	U	No	3970	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	3960	U	No	3960	U	No	3960	U	No	3960	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	3950	U	No	3950	U	No	3950	U	No	3950	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	3990	U	No	3990	U	No	3990	U	No	3990	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	3930	U	No	3930	U	No	3930	U	No	3930	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	3940	U	No	3940	U	No	3940	U	No	3940	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	3920	U	No	3920	U	No	3920	U	No	3920	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	3940	U	No	3940	U	No	3940	U	No	3940	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	3980	U	No	3980	U	No	3980	U	No	3980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	1980	U	No	1980	U	No	1980	U	No	1980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	1980	U	No	1980	U	No	1980	U	No	1980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	1990	U	No	1990	U	No	1990	U	No	1990	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	1980	U	No	1980	U	No	1980	U	No	1980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	1980	U	No	1980	U	No	1980	U	No	1980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	1970	U	No	1970	U	No	1970	U	No	1970	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	1980	U	No	1980	U	No	1980	U	No	1980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	1990	U	No	1990	U	No	1990	U	No	1990	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	1970	U	No	1970	U	No	1970	U	No	1970	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	1990	U	No	1990	U	No	1990	U	No	1990	U	No
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	3980	U	No	3980	U	No	3980	U	No	3980	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	4000	U	No	4000	U	No	4000	U	No	4000	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	3980	U	No	3980	U	No	3980	U	No	3980	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	3960	U	No	3960	U	No	3960	U	No	3960	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	3940	U	No	3940	U	No	3940	U	No	3940	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	3980	U	No	3980	U	No	3980	U	No	3980	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	3970	U	No	3970	U	No	3970	U	No	3970	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	3980	U	No	3980	U	No	3980	U	No	3980	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	3980	U	No	3980	U	No	3980	U	No	3980	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	3940	U	No	3940	U	No	3940	U	No	3940	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	3980	U	No	3980	U	No	3980	U	No	3980	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	3970	U	No	3970	U	No	3970	U	No	3970	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	3950	U	No	3950	U	No	3950	U	No	3950	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	3980	U	No	3980	U	No	3980	U	No	3980	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	3980	U	No	3980	U	No	3980	U	No	3980	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	3960	U	No	3960	U	No	3960	U	No	3960	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	3940	U	No	3940	U	No	3940	U	No	3940	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	3950	U	No	3950	U	No	3950	U	No	3950	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	3980	U	No	3980	U	No	3980	U	No	3980	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	3990	U	No	3990	U	No	3990	U	No	3990	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	3980	U	No	3980	U	No	3980	U	No	3980	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	4000	U	No	4000	U	No	4000	U	No	4000	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	3940	U	No	3940	U	No	3940	U	No	3940	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	3980	U	No	3980	U	No	3980	U	No	3980	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	3990	U	No	3990	U	No	3990	U	No	3990	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	3950	U	No	3950	U	No	3950	U	No	3950	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	3940	U	No	3940	U	No	3940	U	No	3940	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	3970	U	No	3970	U	No	3970	U	No	3970	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	3990	U	No	3990	U	No	3990	U	No	3990	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	3960	U	No	3960	U	No	3960	U	No	3960	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	3980	U	No	3980	U	No	3980	U	No	3980	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	3940	U	No	3940	U	No	3940	U	No	3940	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	3950	U	No	3950	U	No	3950	U	No	3950	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	1990	U	No	1990	U	No	1990	U	No	1990	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	1990	U	No	1990	U	No	1990	U	No	1990	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	1980	U	No	1980	U	No	1980	U	No	1980	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	1970	U	No	1970	U	No	1970	U	No	1970	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	1970	U	No	1970	U	No	1970	U	No	1970	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	3970	U	No	3970	U	No	3970	U	No	3970	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	3940	U	No	3940	U	No	3940	U	No	3940	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	3970	U	No	3970	U	No	3970	U	No	3970	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	3970	U	No	3970	U	No	3970	U	No	3970	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	4000	U	No	4000	U	No	4000	U	No	4000	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	3980	U	No	3980	U	No	3980	U	No	3980	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	3960	U	No	3960	U	No	3960	U	No	3960	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

					2,4-Dichlorophenol			2,4-Dimethylphenol			2,4-Dinitrophenol			2,4-Dinitrotoluene			2,6-Dinitrotoluene			2-Chloronaphthalene			2-Chlorophenol			2-Methylphen
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg	
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	3990	U	No	3990	U	No	24000	U	No	5990	U	No	2000	U	No	3990	U	No	2000	U	No	3990	U
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	3980	U	No	3980	U	No	23800	U	No	5960	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	4000	U	No	4000	U	No	24000	U	No	6000	U	No	2000	U	No	4000	U	No	2000	U	No	4000	U
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	3960	U	No	3960	U	No	23800	U	No	5940	U	No	1980	U	No	3960	U	No	1980	U	No	3960	U
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	3990	U	No	3990	U	No	24000	U	No	5990	U	No	2000	U	No	3990	U	No	2000	U	No	3990	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	3950	U	No	3950	U	No	23700	U	No	5930	U	No	1980	U	No	3950	U	No	1980	U	No	3950	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	3960	U	No	3960	U	No	23800	U	No	5940	U	No	1980	U	No	3960	U	No	1980	U	No	3960	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	3980	U	No	3980	U	No	23800	U	No	5960	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	3920	U	No	3920	U	No	23500	U	No	5880	U	No	1960	U	No	3920	U	No	1960	U	No	3920	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	3990	U	No	3990	U	No	24000	U	No	5990	U	No	2000	U	No	3990	U	No	2000	U	No	3990	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	3940	U	No	3940	U	No	23700	U	No	5920	U	No	1970	U	No	3940	U	No	1970	U	No	3940	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	3950	U	No	3950	U	No	23700	U	No	5930	U	No	1980	U	No	3950	U	No	1980	U	No	3950	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	3950	U	No	3950	U	No	23700	U	No	5930	U	No	1980	U	No	3950	U	No	1980	U	No	3950	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	3950	U	No	3950	U	No	23700	U	No	5930	U	No	1980	U	No	3950	U	No	1980	U	No	3950	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	3940	U	No	3940	U	No	23700	U	No	5920	U	No	1970	U	No	3940	U	No	1970	U	No	3940	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	3920	U	No	3920	U	No	23500	U	No	5880	U	No	1960	U	No	3920	U	No	1960	U	No	3920	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	3960	U	No	3960	U	No	23800	U	No	5940	U	No	1980	U	No	3960	U	No	1980	U	No	3960	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	3970	U	No	3970	U	No	23800	U	No	5950	U	No	1980	U	No	3970	U	No	1980	U	No	3970	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	3960	U	No	3960	U	No	23800	U	No	5940	U	No	1980	U	No	3960	U	No	1980	U	No	3960	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	3950	U	No	3950	U	No	23700	U	No	5930	U	No	1980	U	No	3950	U	No	1980	U	No	3950	U
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	3990	U	No	3990	U	No	24000	U	No	5990	U	No	2000	U	No	3990	U	No	2000	U	No	3990	U
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	3930	U	No	3930	U	No	23600	U	No	5890	U	No	1960	U	No	3930	U	No	1960	U	No	3930	U
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	3940	U	No	3940	U	No	23600	U	No	5900	U	No	1970	U	No	3940	U	No	1970	U	No	3940	U
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	3920	U	No	3920	U	No	23500	U	No	5880	U	No	1960	U	No	3920	U	No	1960	U	No	3920	U
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	3940	U	No	3940	U	No	23600	U	No	5900	U	No	1970	U	No	3940	U	No	1970	U	No	3940	U
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	3980	U	No	3980	U	No	23900	U	No	5980	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	1980	U	No	1980	U	No	11900	U	No	2980	U	No	993	U	No	1980	U	No	993	U	No	1980	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	1980	U	No	1980	U	No	11900	U	No	2970	U	No	993	U	No	1980	U	No	993	U	No	1980	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	1990	U	No	1990	U	No	11900	U	No	2980	U	No	995	U	No	1990	U	No	995	U	No	1990	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	1980	U	No	1980	U	No	11900	U	No	2970	U	No	990	U	No	1980	U	No	990	U	No	1980	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	1980	U	No	1980	U	No	11900	U	No	2980	U	No	992	U	No	1980	U	No	992	U	No	1980	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	1970	U	No	1970	U	No	11800	U	No	2950	U	No	986	U	No	1970	U	No	986	U	No	1970	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	1980	U	No	1980	U	No	11900	U	No	2970	U	No	990	U	No	1980	U	No	990	U	No	1980	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	1990	U	No	1990	U	No	11900	U	No	2980	U	No	993	U	No	1990	U	No	993	U	No	1990	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	1970	U	No	1970	U	No	11800	U	No	2950	U	No	984	U	No	1970	U	No	984	U	No	1970	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	1990	U	No	1990	U	No	11900	U	No	2980	U	No	995	U	No	1990	U	No	995	U	No	1990	U
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	3980	U	No	3980	U	No	23800	UJ	No	5960	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	4000	U	No	4000	U	No	24000	U	No	6000	U	No	2000	U	No	4000	U	No	2000	U	No	4000	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	3980	U	No	3980	U	No	23900	U	No	5980	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	3960	U	No	3960	U	No	23800	U	No	5940	U	No	1980	U	No	3960	U	No	1980	U	No	3960	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	3940	U	No	3940	U	No	23700	U	No	5920	U	No	1970	U	No	3940	U	No	1970	U	No	3940	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	3980	U	No	3980	U	No	23800	U	No	5960	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	3970	U	No	3970	U	No	23800	U	No	5950	U	No	1980	U	No	3970	U	No	1980	U	No	3970	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	3980	U	No	3980	U	No	23800	U	No	5960	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	3980	U	No	3980	U	No	23800	U	No	5960	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	3940	U	No	3940	U	No	23700	U	No	5920	U	No	1970	U	No	3940	U	No	1970	U	No	3940	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	3980	U	No	3980	U	No	23800	U	No	5960	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	3970	U	No	3970	U	No	23800	U	No	5950	U	No	1980	U	No	3970	U	No	1980	U	No	3970	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	3950	U	No	3950	U	No	23700	U	No	5930	U	No	1980	U	No	3950	U	No	1980	U	No	3950	U
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	3980	U	No	3980	UJ	No	23800	U	No	5960	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	3980	U	No	3980	UJ	No	23900	U	No	5980	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	3960	U	No	3960	UJ	No	23800	U	No	5940	U	No	1980	U	No	3960	U	No	1980	U	No	3960	U
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	3940	U	No	3940	UJ	No	23600	U	No	5900	U	No	1970	U	No	3940	U	No	1970	U	No	3940	U
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	3950	U	No	3950	UJ	No	23700	U	No	5930	U	No	1980	U	No	3950	U	No	1980	U	No	3950	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	3980	U	No	3980	UJ	No	23900	U	No	5980	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	3990	U	No	3990	UJ	No	24000	U	No	5990	U	No	2000	U	No	3990	U	No	2000	U	No	3990	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	3980	U	No	3980	UJ	No	23800	U	No	5960	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	4000	U	No	4000	UJ	No	24000	U	No	6000	U	No	2000	U	No	4000	U	No	2000	U	No	4000	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	3940	U	No	3940	UJ	No	23700	U	No	5920	U	No	1970	U	No	3940	U	No	1970	U	No	3940	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	3980	U	No	3980	UJ	No	23900	U	No	5980	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	3990	U	No	3990	UJ	No	24000	U	No	5990	U	No	2000	U	No	3990	U	No	2000	U	No	3990	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	3950	U	No	3950	UJ	No	23700	U	No	5930	U	No	1980	U	No	3950	U	No	1980	U	No	3950	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	3940	U	No	3940	UJ	No	23600	U	No	5900	U	No	1970	U	No	3940	U	No	1970	U	No	3940	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	3970	U	No	3970	UJ	No	23800	U	No	5950	U	No	1980	U	No	3970	U	No	1980	U	No	3970	U
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	3990	U	No	3990	UJ	No	24000	U	No	5990	U	No	2000	U	No	3990	U	No	2000	U	No	3990	U
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	3960	U	No	3960	UJ	No	23800	U	No	5940	U	No	1980	U	No	3960	U	No	1980	U	No	3960	U
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	3980	U	No	3980	UJ	No	23800	U	No	5960	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	3940	U	No	3940	UJ	No	23600	U	No	5900	U	No	1970	U	No	3940	U	No	1970	U	No	3940	U
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	3950	U	No	3950	UJ	No	23700	U	No	5930	U	No	1980	U	No	3950	U	No	1980	U	No	3950	U
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	1990	U	No	1990	UJ	No	11900	U	No	2990	U	No	997	U	No	1990	U	No	997	U	No	1990	U
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	1990	U	No	1990	UJ	No	12000	U	No	2990	U	No	997	U	No	1990	U	No	997	U	No	1990	U
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	1980	U	No	1980	UJ	No	11900	U	No	2980	U	No	993	U	No	1980	U	No	993	U	No	1980	U
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	1970	U	No	1970	UJ	No	11800	U	No	2950	U	No	987	U	No	1970	U	No	987	U	No	1970	U
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	1970	U	No	1970	UJ	No	11800	U	No	2960	U	No	988	U	No	1970	U	No	988	U	No	1970	U
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	3970	U	No	3970	U	No	23800	U	No	5950	U	No	1980	U	No	3970	U	No	1980	U	No	3970	U
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	3940	U	No	3940	U	No	23700	U	No	5920	U	No	1970	U	No	3940	U	No	1970	U	No	3940	U
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	3970	U	No	3970	U	No	23800	U	No	5950	U	No	1980	U	No	3970	U	No	1980	U	No	3970	U
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	3970	U	No	3970	U	No	23800	U	No	5950	U	No	1980	U	No	3970	U	No	1980	U	No	3970	U
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	4000	U	No	4000	U	No	24000	U	No	6000	U	No	2000	U	No	4000	U	No	2000	U	No	4000	U
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	3980	U	No	3980	U	No	23800	U	No	5960	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	3960	U	No	3960	U	No	23800	U	No	5940	U	No	1980	U	No	3960	U	No	1980	U	No	3960	U

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	No
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	No

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	2-Nitroaniline µg/kg			2-Nitrophenol µg/kg			3,3'-Dichlorobenzidine µg/kg			3-Nitroaniline µg/kg			4,6-Dinitro-2-methylphenol µg/kg			4-Bromophenyl-phenylether µg/kg			4-Chloro-3-methylphenol µg/kg			4-Chloroanilin µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	2000	U	No	3990	U	No	5990	U	No	2000	U	No	20000	U	No	3990	U	No	5990	U	No	2000	UJ
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	1990	U	No	3980	U	No	5960	U	No	1990	U	No	19900	U	No	3980	U	No	5960	U	No	1990	UJ
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	2000	U	No	4000	U	No	6000	U	No	2000	U	No	20000	U	No	4000	U	No	6000	U	No	2000	UJ
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	1980	U	No	3960	U	No	5940	U	No	1980	U	No	19800	U	No	3960	U	No	5940	U	No	1980	UJ
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	2000	U	No	3990	U	No	5990	U	No	2000	U	No	20000	U	No	3990	U	No	5990	U	No	2000	UJ
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	1980	U	No	3950	U	No	5930	U	No	1980	U	No	19800	U	No	3950	U	No	5930	U	No	1980	UJ
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	1980	U	No	3960	U	No	5940	U	No	1980	U	No	19800	U	No	3960	U	No	5940	U	No	1980	UJ
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	1990	U	No	3980	U	No	5960	U	No	1990	U	No	19900	U	No	3980	U	No	5960	U	No	1990	UJ
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	1960	U	No	3920	U	No	5880	U	No	1960	U	No	19600	U	No	3920	U	No	5880	U	No	1960	UJ
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	2000	U	No	3990	U	No	5990	U	No	2000	U	No	20000	U	No	3990	U	No	5990	U	No	2000	UJ
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	1970	U	No	3940	U	No	5920	U	No	1970	U	No	19700	U	No	3940	U	No	5920	U	No	1970	UJ
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	1980	U	No	3950	U	No	5930	U	No	1980	U	No	19800	U	No	3950	U	No	5930	U	No	1980	UJ
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	1980	U	No	3950	U	No	5930	U	No	1980	U	No	19800	U	No	3950	U	No	5930	U	No	1980	UJ
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	1980	U	No	3950	U	No	5930	U	No	1980	U	No	19800	U	No	3950	U	No	5930	U	No	1980	UJ
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	1970	U	No	3940	U	No	5920	U	No	1970	U	No	19700	U	No	3940	U	No	5920	U	No	1970	UJ
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	1960	U	No	3920	U	No	5880	U	No	1960	U	No	19600	U	No	3920	U	No	5880	U	No	1960	UJ
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	1980	U	No	3960	U	No	5940	U	No	1980	U	No	19800	U	No	3960	U	No	5940	U	No	1980	UJ
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	1980	U	No	3970	U	No	5950	U	No	1980	U	No	19800	U	No	3970	U	No	5950	U	No	1980	UJ
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	1980	U	No	3960	U	No	5940	U	No	1980	U	No	19800	U	No	3960	U	No	5940	U	No	1980	UJ
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	1980	U	No	3950	U	No	5930	U	No	1980	U	No	19800	U	No	3950	U	No	5930	U	No	1980	UJ
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	2000	U	No	3990	U	No	5990	U	No	2000	U	No	20000	U	No	3990	U	No	5990	U	No	2000	UJ
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	1960	U	No	3930	U	No	5890	U	No	1960	U	No	19600	U	No	3930	U	No	5890	U	No	1960	UJ
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	1970	U	No	3940	U	No	5900	U	No	1970	U	No	19700	U	No	3940	U	No	5900	U	No	1970	UJ
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	1960	U	No	3920	U	No	5880	U	No	1960	U	No	19600	U	No	3920	U	No	5880	U	No	1960	UJ
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	1970	U	No	3940	U	No	5900	U	No	1970	U	No	19700	U	No	3940	U	No	5900	U	No	1970	UJ
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	1990	U	No	3980	U	No	5980	U	No	1990	U	No	19900	U	No	3980	U	No	5980	U	No	1990	UJ
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	993	U	No	1980	U	No	2980	U	No	993	U	No	9930	U	No	1980	U	No	2980	U	No	993	UJ
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	993	U	No	1980	U	No	2970	U	No	993	U	No	9930	U	No	1980	U	No	2970	U	No	993	UJ
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	995	U	No	1990	U	No	2980	U	No	995	U	No	9950	U	No	1990	U	No	2980	U	No	995	UJ
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	990	U	No	1980	U	No	2970	U	No	990	U	No	9900	U	No	1980	U	No	2970	U	No	990	UJ
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	992	U	No	1980	U	No	2980	U	No	992	U	No	9920	U	No	1980	U	No	2980	U	No	992	UJ
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	986	U	No	1970	U	No	2950	U	No	986	U	No	9860	U	No	1970	U	No	2950	U	No	986	UJ
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	990	U	No	1980	U	No	2970	U	No	990	U	No	9900	U	No	1980	U	No	2970	U	No	990	UJ
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	993	U	No	1990	U	No	2980	U	No	993	U	No	9930	U	No	1990	U	No	2980	U	No	993	UJ
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	984	U	No	1970	U	No	2950	U	No	984	U	No	9840	U	No	1970	U	No	2950	U	No	984	UJ
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	995	U	No	1990	U	No	2980	U	No	995	U	No	9950	U	No	1990	U	No	2980	U	No	995	UJ
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	1990	U	No	3980	U	No	5960	U	No	1990	U	No	19900	U	No	3980	U	No	5960	U	No	1990	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	2000	U	No	4000	U	No	6000	U	No	2000	U	No	20000	U	No	4000	U	No	6000	U	No	2000	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	1990	U	No	3980	U	No	5980	U	No	1990	U	No	19900	U	No	3980	U	No	5980	U	No	1990	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	1980	U	No	3960	U	No	5940	U	No	1980	U	No	19800	U	No	3960	U	No	5940	U	No	1980	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	1970	U	No	3940	U	No	5920	U	No	1970	U	No	19700	U	No	3940	U	No	5920	U	No	1970	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	1990	U	No	3980	U	No	5960	U	No	1990	U	No	19900	U	No	3980	U	No	5960	U	No	1990	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	1980	U	No	3970	U	No	5950	U	No	1980	U	No	19800	U	No	3970	U	No	5950	U	No	1980	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	1990	U	No	3980	U	No	5960	U	No	1990	U	No	19900	U	No	3980	U	No	5960	U	No	1990	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	1990	U	No	3980	U	No	5960	U	No	1990	U	No	19900	U	No	3980	U	No	5960	U	No	1990	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	1970	U	No	3940	U	No	5920	U	No	1970	U	No	19700	U	No	3940	U	No	5920	U	No	1970	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	1990	U	No	3980	U	No	5960	U	No	1990	U	No	19900	U	No	3980	U	No	5960	U	No	1990	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	1980	U	No	3970	U	No	5950	U	No	1980	U	No	19800	U	No	3970	U	No	5950	U	No	1980	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	1980	U	No	3950	U	No	5930	U	No	1980	U	No	19800	U	No	3950	U	No	5930	U	No	1980	U
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	1990	U	No	3980	U	No	5960	UJ	No	1990	UJ	No	19900	U	No	3980	U	No	5960	U	No	1990	UJ
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	1990	U	No	3980	U	No	5980	UJ	No	1990	UJ	No	19900	U	No	3980	U	No	5980	U	No	1990	UJ
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	1980	U	No	3960	U	No	5940	UJ	No	1980	UJ	No	19800	U	No	3960	U	No	5940	U	No	1980	UJ
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	1970	U	No	3940	U	No	5900	UJ	No	1970	UJ	No	19700	U	No	3940	U	No	5900	U	No	1970	UJ
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	1980	U	No	3950	U	No	5930	UJ	No	1980	UJ	No	19800	U	No	3950	U	No	5930	U	No	1980	UJ
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	1990	U	No	3980	U	No	5980	UJ	No	1990	UJ	No	19900	U	No	3980	U	No	5980	U	No	1990	UJ
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	2000	U	No	3990	U	No	5990	UJ	No	2000	UJ	No	20000	U	No	3990	U	No	5990	U	No	2000	UJ
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	1990	U	No	3980	U	No	5960	UJ	No	1990	UJ	No	19900	U	No	3980	U	No	5960	U	No	1990	UJ
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	2000	U	No	4000	U	No	6000	UJ	No	2000	UJ	No	20000	U	No	4000	U	No	6000	U	No	2000	UJ
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	1970	U	No	3940	U	No	5920	UJ	No	1970	UJ	No	19700	U	No	3940	U	No	5920	U	No	1970	UJ
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	1990	U	No	3980	U	No	5980	UJ	No	1990	UJ	No	19900	U	No	3980	U	No	5980	U	No	1990	UJ
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	2000	U	No	3990	U	No	5990	UJ	No	2000	UJ	No	20000	U	No	3990	U	No	5990	U	No	2000	UJ
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	1980	U	No	3950	U	No	5930	UJ	No	1980	UJ	No	19800	U	No	3950	U	No	5930	U	No	1980	UJ
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	1970	U	No	3940	U	No	5900	UJ	No	1970	UJ	No	19700	U	No	3940	U	No	5900	U	No	1970	UJ
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	1980	U	No	3970	U	No	5950	UJ	No	1980	UJ	No	19800	U	No	3970	U	No	5950	U	No	1980	UJ
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	2000	U	No	3990	U	No	5990	UJ	No	2000	UJ	No	20000	U	No	3990	U	No	5990	U	No	2000	UJ
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	1980	U	No	3960	U	No	5940	UJ	No	1980	UJ	No	19800	U	No	3960	U	No	5940	U	No	1980	UJ
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	1990	U	No	3980	U	No	5960	UJ	No	1990	UJ	No	19900	U	No	3980	U	No	5960	U	No	1990	UJ
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	1970	U	No	3940	U	No	5900	UJ	No	1970	UJ	No	19700	U	No	3940	U	No	5900	U	No	1970	UJ
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	1980	U	No	3950	U	No	5930	UJ	No	1980	UJ	No	19800	U	No	3950	U	No	5930	U	No	1980	UJ
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	997	U	No	1990	U	No	2990	UJ	No	997	UJ	No	9970	U	No	1990	U	No	2990	U	No	997	UJ
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	997	U	No	1990	U	No	2990	UJ	No	997	UJ	No	9970	U	No	1990	U	No	2990	U	No	997	UJ
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	993	U	No	1980	U	No	2980	UJ	No	993	UJ	No	9930	U	No	1980	U	No	2980	U	No	993	UJ
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	987	U	No	1970	U	No	2950	UJ	No	987	UJ	No	9870	U	No	1970	U	No	2950	U	No	987	UJ
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	988	U	No	1970	U	No	2960	UJ	No	988	UJ	No	9880	U	No	1970	U	No	2960	U	No	988	UJ
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	1980	U	No	3970	U	No	5950	U	No	1980	U	No	19800	U	No	3970	U	No	5950	U	No	1980	U
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	1970	U	No	3940	U	No	5920	U	No	1970	U	No	19700	U	No	3940	U	No	5920	U	No	1970	U
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	1980	U	No	3970	U	No	5950	U	No	1980	U	No	19800	U	No	3970	U	No	5950	U	No	1980	U
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	1980	U	No	3970	U	No	5950	U	No	1980	U	No	19800	U	No	3970	U	No	5950	U	No	1980	U
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	2000	U	No	4000	U	No	6000	U	No	2000	U	No	20000	U	No	4000	U	No	6000	U	No	2000	U
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	1990	U	No	3980	U	No	5960	U	No	1990	U	No	19900	U	No	3980	U	No	5960	U	No	1990	U
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	1980	U	No	3960	U	No	5940	U	No	1980	U	No	19800	U	No	3960	U	No	5940	U	No	1980	U

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	e Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	No
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	No

BERA Tissue Chemistry Data from Above Dundee Dam

					4-Chlorophenyl-phenylether			4-Methylphenol			4-Nitroaniline			4-Nitrophenol			Acetophenone			Atrazine		
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	2000	U	No	3990	U	No	2000	U	No	39900	U	No	3990	U	No	3990	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	1990	U	No	3980	U	No	1990	U	No	39800	U	No	3980	U	No	3980	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	2000	U	No	4000	U	No	2000	U	No	40000	U	No	4000	U	No	4000	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	1980	U	No	3960	U	No	1980	U	No	39600	U	No	3960	U	No	3960	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	2000	U	No	3990	U	No	2000	U	No	39900	U	No	3990	U	No	3990	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	1980	U	No	3950	U	No	1980	U	No	39500	U	No	3950	U	No	3950	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	1980	U	No	3960	U	No	1980	U	No	39600	U	No	3960	U	No	3960	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	1990	U	No	3980	U	No	1990	U	No	39800	U	No	3980	U	No	3980	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	1960	U	No	3920	U	No	1960	U	No	39200	U	No	3920	U	No	3920	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	2000	U	No	3990	U	No	2000	U	No	39900	U	No	3990	U	No	3990	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	1970	U	No	3940	U	No	1970	U	No	39400	U	No	3940	U	No	3940	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	1980	U	No	3950	U	No	1980	U	No	39500	U	No	3950	U	No	3950	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	1980	U	No	3950	U	No	1980	U	No	39500	U	No	3950	U	No	3950	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	1980	U	No	3950	U	No	1980	U	No	39500	U	No	3950	U	No	3950	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	1970	U	No	3940	U	No	1970	U	No	39400	U	No	3940	U	No	3940	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	1960	U	No	3920	U	No	1960	U	No	39200	U	No	3920	U	No	3920	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	1980	U	No	3960	U	No	1980	U	No	39600	U	No	3960	U	No	3960	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	1980	U	No	3970	U	No	1980	U	No	39700	U	No	3970	U	No	3970	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	1980	U	No	3960	U	No	1980	U	No	39600	U	No	3960	U	No	3960	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	1980	U	No	3950	U	No	1980	U	No	39500	U	No	3950	U	No	3950	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	2000	U	No	3990	U	No	2000	U	No	39900	U	No	3990	U	No	3990	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	1960	U	No	3930	U	No	1960	U	No	39300	U	No	3930	U	No	3930	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	1970	U	No	3940	U	No	1970	U	No	39400	U	No	3940	U	No	3940	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	1960	U	No	3920	U	No	1960	U	No	39200	U	No	3920	U	No	3920	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	1970	U	No	3940	U	No	1970	U	No	39400	U	No	3940	U	No	3940	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	1990	U	No	3980	U	No	1990	U	No	39800	U	No	3980	U	No	3980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	993	U	No	1980	U	No	993	U	No	19800	U	No	1980	U	No	1980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	993	U	No	1980	U	No	993	U	No	19800	U	No	1980	U	No	1980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	995	U	No	1990	U	No	995	U	No	19900	U	No	1990	U	No	1990	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	990	U	No	1980	U	No	990	U	No	19800	U	No	1980	U	No	1980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	992	U	No	1980	U	No	992	U	No	19800	U	No	1980	U	No	1980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	986	U	No	1970	U	No	986	U	No	19700	U	No	1970	U	No	1970	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	990	U	No	1980	U	No	990	U	No	19800	U	No	1980	U	No	1980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	993	U	No	1990	U	No	993	U	No	19900	U	No	1990	U	No	1990	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	984	U	No	1970	U	No	984	U	No	19700	U	No	1970	U	No	1970	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	995	U	No	1990	U	No	995	U	No	19900	U	No	1990	U	No	1990	U	No
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	1990	U	No	3980	U	No	1990	U	No	39800	U	No	3980	U	No	3980	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	2000	U	No	4000	U	No	2000	U	No	40000	U	No	4000	U	No	4000	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	1990	U	No	3980	U	No	1990	U	No	39800	U	No	3980	U	No	3980	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	1980	U	No	3960	U	No	1980	U	No	39600	U	No	3960	U	No	3960	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	1970	U	No	3940	U	No	1970	U	No	39400	U	No	3940	U	No	3940	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	1990	U	No	3980	U	No	1990	U	No	39800	U	No	3980	U	No	3980	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	1980	U	No	3970	U	No	1980	U	No	39700	U	No	3970	U	No	3970	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	1990	U	No	3980	U	No	1990	U	No	39800	U	No	3980	U	No	3980	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	1990	U	No	3980	U	No	1990	U	No	39800	U	No	3980	U	No	3980	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	1970	U	No	3940	U	No	1970	U	No	39400	U	No	3940	U	No	3940	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	1990	U	No	3980	U	No	1990	U	No	39800	U	No	3980	U	No	3980	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	1980	U	No	3970	U	No	1980	U	No	39700	U	No	3970	U	No	3970	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	1980	U	No	3950	U	No	1980	U	No	39500	U	No	3950	U	No	3950	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	1990	U	No	3980	U	No	1990	UJ	No	39800	U	No	3980	U	No	3980	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	1990	U	No	3980	U	No	1990	UJ	No	39800	U	No	3980	U	No	3980	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	1980	U	No	3960	U	No	1980	UJ	No	39600	U	No	3960	U	No	3960	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	1970	U	No	3940	U	No	1970	UJ	No	39400	U	No	3940	U	No	3940	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	1980	U	No	3950	U	No	1980	UJ	No	39500	U	No	3950	U	No	3950	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	1990	U	No	3980	U	No	1990	UJ	No	39800	U	No	3980	U	No	3980	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	2000	U	No	3990	U	No	2000	UJ	No	39900	U	No	3990	U	No	3990	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	1990	U	No	3980	U	No	1990	UJ	No	39800	U	No	3980	U	No	3980	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	2000	U	No	4000	U	No	2000	UJ	No	40000	U	No	4000	U	No	4000	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	1970	U	No	3940	U	No	1970	UJ	No	39400	U	No	3940	U	No	3940	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	1990	U	No	3980	U	No	1990	UJ	No	39800	U	No	3980	U	No	3980	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	2000	U	No	3990	U	No	2000	UJ	No	39900	U	No	3990	U	No	3990	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	1980	U	No	3950	U	No	1980	UJ	No	39500	U	No	3950	U	No	3950	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	1970	U	No	3940	U	No	1970	UJ	No	39400	U	No	3940	U	No	3940	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	1980	U	No	3970	U	No	1980	UJ	No	39700	U	No	3970	U	No	3970	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	2000	U	No	3990	U	No	2000	UJ	No	39900	U	No	3990	U	No	3990	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	1980	U	No	3960	U	No	1980	UJ	No	39600	U	No	3960	U	No	3960	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	1990	U	No	3980	U	No	1990	UJ	No	39800	U	No	3980	U	No	3980	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	1970	U	No	3940	U	No	1970	UJ	No	39400	U	No	3940	U	No	3940	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	1980	U	No	3950	U	No	1980	UJ	No	39500	U	No	3950	U	No	3950	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	997	U	No	1990	U	No	997	UJ	No	19900	U	No	1990	U	No	1990	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	997	U	No	1990	U	No	997	UJ	No	19900	U	No	1990	U	No	1990	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	993	U	No	1980	U	No	993	UJ	No	19800	U	No	1980	U	No	1980	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	987	U	No	1970	U	No	987	UJ	No	19700	U	No	1970	U	No	1970	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	988	U	No	1970	U	No	988	UJ	No	19700	U	No	1970	U	No	1970	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	1980	U	No	3970	U	No	1980	U	No	39700	U	No	3970	U	No	3970	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	1970	U	No	3940	U	No	1970	U	No	39400	U	No	3940	U	No	3940	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	1980	U	No	3970	U	No	1980	U	No	39700	U	No	3970	U	No	3970	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	1980	U	No	3970	U	No	1980	U	No	39700	U	No	3970	U	No	3970	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	2000	U	No	4000	U	No	2000	U	No	40000	U	No	4000	U	No	4000	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	1990	U	No	3980	U	No	1990	U	No	39800	U	No	3980	U	No	3980	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	1980	U	No	3960	U	No	1980	U	No	39600	U	No	3960	U	No	3960	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

					Benzaldehyde			Bis-(2-chloroethoxy)methane			Bis-(2-chloroethyl)ether			Bis-(2-ethylhexyl)phthalate			Butylbenzylphthalate			Caprolactam			Carbazole			Dibenzofurar	
					µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg			µg/kg	
Species	Tissue Type	Event	Reach	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	29900	U	No	3990	U	No	3990	U	No	7980	U	No	3990	U	No	3990	U	No	3990	U	No	3990	U
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	29800	U	No	3980	U	No	3980	U	No	7950	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	30000	U	No	4000	U	No	4000	U	No	8000	U	No	4000	U	No	4000	U	No	4000	U	No	4000	U
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	29700	U	No	3960	U	No	3960	U	No	7920	U	No	3960	U	No	3960	U	No	3960	U	No	3960	U
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	29900	U	No	3990	U	No	3990	U	No	7980	U	No	3990	U	No	3990	U	No	3990	U	No	3990	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	29600	U	No	3950	U	No	3950	U	No	7900	U	No	3950	U	No	3950	U	No	3950	U	No	3950	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	29700	U	No	3960	U	No	3960	U	No	7920	U	No	3960	U	No	3960	U	No	3960	U	No	3960	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	29800	U	No	3980	U	No	3980	U	No	7950	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	29400	U	No	3920	U	No	3920	U	No	7840	U	No	3920	U	No	3920	U	No	3920	U	No	3920	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	29900	U	No	3990	U	No	3990	U	No	7980	U	No	3990	U	No	3990	U	No	3990	U	No	3990	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	29600	U	No	3940	U	No	3940	U	No	7890	U	No	3940	U	No	3940	U	No	3940	U	No	3940	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	29600	U	No	3950	U	No	3950	U	No	7900	U	No	3950	U	No	3950	U	No	3950	U	No	3950	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	29600	U	No	3950	U	No	3950	U	No	7900	U	No	3950	U	No	3950	U	No	3950	U	No	3950	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	29600	U	No	3950	U	No	3950	U	No	7900	U	No	3950	U	No	3950	U	No	3950	U	No	3950	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	29600	U	No	3940	U	No	3940	U	No	7890	U	No	3940	U	No	3940	U	No	3940	U	No	3940	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	29400	U	No	3920	U	No	3920	U	No	7840	U	No	3920	U	No	3920	U	No	3920	U	No	3920	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	29700	U	No	3960	U	No	3960	U	No	7920	U	No	3960	U	No	3960	U	No	3960	U	No	3960	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	29800	U	No	3970	U	No	3970	U	No	7940	U	No	3970	U	No	3970	U	No	3970	U	No	3970	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	29700	U	No	3960	U	No	3960	U	No	7920	U	No	3960	U	No	3960	U	No	3960	U	No	3960	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	29600	U	No	3950	U	No	3950	U	No	7900	U	No	3950	U	No	3950	U	No	3950	U	No	3950	U
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	29900	U	No	3990	U	No	3990	U	No	7980	U	No	3990	U	No	3990	U	No	3990	U	No	3990	U
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	29500	U	No	3930	U	No	3930	U	No	7860	U	No	3930	U	No	3930	U	No	3930	U	No	3930	U
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	29500	U	No	3940	U	No	3940	U	No	7870	U	No	3940	U	No	3940	U	No	3940	U	No	3940	U
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	29400	U	No	3920	U	No	3920	U	No	7840	U	No	3920	U	No	3920	U	No	3920	U	No	3920	U
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	29500	U	No	3940	U	No	3940	U	No	7870	U	No	3940	U	No	3940	U	No	3940	U	No	3940	U
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	29900	U	No	3980	U	No	3980	U	No	7970	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	14900	U	No	1980	U	No	1980	U	No	3970	U	No	1980	U	No	1980	U	No	1980	U	No	1980	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	14900	U	No	1980	U	No	1980	U	No	3960	U	No	1980	U	No	1980	U	No	1980	U	No	1980	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	14900	U	No	1990	U	No	1990	U	No	3980	U	No	1990	U	No	1990	U	No	1990	U	No	1990	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	14800	U	No	1980	U	No	1980	U	No	3960	U	No	1980	U	No	1980	U	No	1980	U	No	1980	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	14900	U	No	1980	U	No	1980	U	No	3970	U	No	1980	U	No	1980	U	No	1980	U	No	1980	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	14800	U	No	1970	U	No	1970	U	No	3940	U	No	1970	U	No	1970	U	No	1970	U	No	1970	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	14900	U	No	1980	U	No	1980	U	No	3960	U	No	1980	U	No	1980	U	No	1980	U	No	1980	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	14900	U	No	1990	U	No	1990	U	No	3970	U	No	1990	U	No	1990	U	No	1990	U	No	1990	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	14800	U	No	1970	U	No	1970	U	No	3940	U	No	1970	U	No	1970	U	No	1970	U	No	1970	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	14900	U	No	1990	U	No	1990	U	No	3970	U	No	1990	U	No	1990	U	No	1990	U	No	1990	U
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	29800	U	No	3980	U	No	3980	U	No	7950	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	30000	U	No	4000	U	No	4000	U	No	8000	U	No	4000	U	No	4000	U	No	4000	U	No	4000	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	29900	U	No	3980	U	No	3980	U	No	7970	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	29700	U	No	3960	U	No	3960	U	No	7920	U	No	3960	U	No	3960	U	No	3960	U	No	3960	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	29600	U	No	3940	U	No	3940	U	No	7890	U	No	3940	U	No	3940	U	No	3940	U	No	3940	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	29800	U	No	3980	U	No	3980	U	No	7950	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	29800	U	No	3970	U	No	3970	U	No	7940	U	No	3970	U	No	3970	U	No	3970	U	No	3970	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	29800	U	No	3980	U	No	3980	U	No	7950	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	29800	U	No	3980	U	No	3980	U	No	7950	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	29600	U	No	3940	U	No	3940	U	No	3280	J	Yes	3940	U	No	3940	U	No	3940	U	No	3940	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	29800	U	No	3980	U	No	3980	U	No	7950	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	29800	U	No	3970	U	No	3970	U	No	7940	U	No	3970	U	No	3970	U	No	3970	U	No	3970	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	29600	U	No	3950	U	No	3950	U	No	7900	U	No	3950	U	No	3950	U	No	3950	U	No	3950	U
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	29800	UJ	No	3980	U	No	3980	U	No	7950	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	29900	UJ	No	3980	U	No	3980	U	No	7970	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	29700	UJ	No	3960	U	No	3960	U	No	7920	U	No	3960	U	No	3960	U	No	3960	U	No	3960	U
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	29500	UJ	No	3940	U	No	3940	U	No	7870	U	No	3940	U	No	3940	U	No	3940	U	No	3940	U
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	29600	UJ	No	3950	U	No	3950	U	No	7900	U	No	3950	U	No	3950	U	No	3950	U	No	3950	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	29900	UJ	No	3980	U	No	3980	U	No	7970	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	29900	UJ	No	3990	U	No	3990	U	No	7980	U	No	3990	U	No	3990	U	No	3990	U	No	3990	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	29800	UJ	No	3980	U	No	3980	U	No	7950	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	30000	UJ	No	4000	U	No	4000	U	No	8000	U	No	4000	U	No	4000	U	No	4000	U	No	4000	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	29600	UJ	No	3940	U	No	3940	U	No	7890	U	No	3940	U	No	3940	U	No	3940	U	No	3940	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	29900	UJ	No	3980	U	No	3980	U	No	7970	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	29900	UJ	No	3990	U	No	3990	U	No	7980	U	No	3990	U	No	3990	U	No	3990	U	No	3990	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	29600	UJ	No	3950	U	No	3950	U	No	7900	U	No	3950	U	No	3950	U	No	3950	U	No	3950	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	29500	UJ	No	3940	U	No	3940	U	No	7870	U	No	3940	U	No	3940	U	No	3940	U	No	3940	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	29800	UJ	No	3970	U	No	3970	U	No	7940	U	No	3970	U	No	3970	U	No	3970	U	No	3970	U
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	29900	UJ	No	3990	U	No	3990	U	No	7980	U	No	3990	U	No	3990	U	No	3990	U	No	3990	U
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	29700	UJ	No	3960	U	No	3960	U	No	7920	U	No	3960	U	No	3960	U	No	3960	U	No	3960	U
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	29800	UJ	No	3980	U	No	3980	U	No	7950	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	29500	UJ	No	3940	U	No	3940	U	No	7870	U	No	3940	U	No	3940	U	No	3940	U	No	3940	U
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	29600	UJ	No	3950	U	No	3950	U	No	7900	U	No	3950	U	No	3950	U	No	3950	U	No	3950	U
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	14900	UJ	No	1990	U	No	1990	U	No	3980	U	No	1990	U	No	1990	U	No	1990	U	No	1990	U
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	15000	UJ	No	1990	U	No	1990	U	No	3990	U	No	1990	U	No	1990	U	No	1990	U	No	1990	U
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	14900	UJ	No	1980	U	No	1980	U	No	3970	U	No	1980	U	No	1980	U	No	1980	U	No	1980	U
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	14800	UJ	No	1970	U	No	1970	U	No	3940	U	No	1970	U	No	1970	U	No	1970	U	No	1970	U
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	14800	UJ	No	1970	U	No	1970	U	No	3950	U	No	1970	U	No	1970	U	No	1970	U	No	1970	U
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	29800	U	No	3970	U	No	3970	U	No	7940	U	No	3970	U	No	3970	U	No	3970	U	No	3970	U
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	29600	U	No	3940	U	No	3940	U	No	7890	U	No	3940	U	No	3940	U	No	3940	U	No	3940	U
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	29800	U	No	3970	U	No	3970	U	No	7940	U	No	3970	U	No	3970	U	No	3970	U	No	3970	U
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	29800	U	No	3970	U	No	3970	U	No	7940	U	No	3970	U	No	3970	U	No	3970	U	No	3970	U
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	30000	U	No	4000	U	No	4000	U	No	8000	U	No	4000	U	No	4000	U	No	4000	U	No	4000	U
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	29800	U	No	3980	U	No	3980	U	No	7950	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	29700	U	No	3960	U	No	3960	U	No	7920	U	No	3960	U	No	3960	U	No	3960	U	No	3960	U

BERA Tissue Chemistry Data from Above Dundee Dam

						Diethylphthalate		
						µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	No	3990	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	No	3980	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	No	4000	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	No	3960	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	No	3990	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	No	3950	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	No	3960	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	No	3980	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	No	3920	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	No	3990	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	No	3940	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	No	3950	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	No	3950	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	No	3950	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	No	3940	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	No	3920	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	No	3960	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	No	3970	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	No	3960	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	No	3950	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	No	3990	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	No	3930	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	No	3940	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	No	3920	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	No	3940	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	No	3980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	No	1980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	No	1980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	No	1990	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	No	1980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	No	1980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	No	1970	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	No	1980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	No	1990	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	No	1970	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	No	1990	U	No
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	No	3980	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	No	4000	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	No	3980	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	No	3960	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	No	3940	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	No	3980	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	No	3970	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	No	3980	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	No	3980	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	No	3940	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	No	3980	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	No	3970	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	No	3950	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	No	3980	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	No	3980	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	No	3960	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	No	3940	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	No	3950	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	No	3980	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	No	3990	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	No	3980	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	No	4000	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	No	3940	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	No	3980	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	No	3990	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	No	3950	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	No	3940	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	No	3970	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	No	3990	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	No	3960	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	No	3980	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	No	3940	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	No	3950	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	No	1990	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	No	1990	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	No	1980	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	No	1970	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	No	1970	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	No	3970	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	No	3940	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	No	3970	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	No	3970	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	No	4000	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	No	3980	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	No	3960	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	Dimethylphthalate µg/kg			Di-n-butylphthalate µg/kg			Di-n-octylphthalate µg/kg			Hexachlorobutadiene µg/kg			Hexachlorocyclopentadiene µg/kg			Hexachloroethane µg/kg			Isophorone µg/kg			Nitrobenzene µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	3990	U	No	5990	U	No	3990	U	No	3990	U	No	2000	U	No	3990	U	No	3990	U	No	3990	U
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	3980	U	No	5960	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	4000	U	No	6000	U	No	4000	U	No	4000	U	No	2000	U	No	4000	U	No	4000	U	No	4000	U
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	3960	U	No	5940	U	No	3960	U	No	3960	U	No	1980	U	No	3960	U	No	3960	U	No	3960	U
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	3990	U	No	5990	U	No	3990	U	No	3990	U	No	2000	U	No	3990	U	No	3990	U	No	3990	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	3950	U	No	5930	U	No	3950	U	No	3950	U	No	1980	U	No	3950	U	No	3950	U	No	3950	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	3960	U	No	5940	U	No	3960	U	No	3960	U	No	1980	U	No	3960	U	No	3960	U	No	3960	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	3980	U	No	5960	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	3920	U	No	5880	U	No	3920	U	No	3920	U	No	1960	U	No	3920	U	No	3920	U	No	3920	U
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	3990	U	No	5990	U	No	3990	U	No	3990	U	No	2000	U	No	3990	U	No	3990	U	No	3990	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	3940	U	No	5920	U	No	3940	U	No	3940	U	No	1970	U	No	3940	U	No	3940	U	No	3940	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	3950	U	No	5930	U	No	3950	U	No	3950	U	No	1980	U	No	3950	U	No	3950	U	No	3950	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	3950	U	No	5930	U	No	3950	U	No	3950	U	No	1980	U	No	3950	U	No	3950	U	No	3950	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	3950	U	No	5930	U	No	3950	U	No	3950	U	No	1980	U	No	3950	U	No	3950	U	No	3950	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	3940	U	No	5920	U	No	3940	U	No	3940	U	No	1970	U	No	3940	U	No	3940	U	No	3940	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	3920	U	No	5880	U	No	3920	U	No	3920	U	No	1960	U	No	3920	U	No	3920	U	No	3920	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	3960	U	No	5940	U	No	3960	U	No	3960	U	No	1980	U	No	3960	U	No	3960	U	No	3960	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	3970	U	No	5950	U	No	3970	U	No	3970	U	No	1980	U	No	3970	U	No	3970	U	No	3970	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	3960	U	No	5940	U	No	3960	U	No	3960	U	No	1980	U	No	3960	U	No	3960	U	No	3960	U
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	3950	U	No	5930	U	No	3950	U	No	3950	U	No	1980	U	No	3950	U	No	3950	U	No	3950	U
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	3990	U	No	5990	U	No	3990	U	No	3990	U	No	2000	U	No	3990	U	No	3990	U	No	3990	U
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	3930	U	No	5890	U	No	3930	U	No	3930	U	No	1960	U	No	3930	U	No	3930	U	No	3930	U
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	3940	U	No	5900	U	No	3940	U	No	3940	U	No	1970	U	No	3940	U	No	3940	U	No	3940	U
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	3920	U	No	5880	U	No	3920	U	No	3920	U	No	1960	U	No	3920	U	No	3920	U	No	3920	U
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	3940	U	No	5900	U	No	3940	U	No	3940	U	No	1970	U	No	3940	U	No	3940	U	No	3940	U
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	3980	U	No	5980	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	1980	U	No	2980	U	No	1980	U	No	1980	U	No	993	U	No	1980	U	No	1980	U	No	1980	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	1980	U	No	2970	U	No	1980	U	No	1980	U	No	993	U	No	1980	U	No	1980	U	No	1980	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	1990	U	No	2980	U	No	1990	U	No	1990	U	No	995	U	No	1990	U	No	1990	U	No	1990	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	1980	U	No	2970	U	No	1980	U	No	1980	U	No	990	U	No	1980	U	No	1980	U	No	1980	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	1980	U	No	2980	U	No	1980	U	No	1980	U	No	992	U	No	1980	U	No	1980	U	No	1980	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	1970	U	No	2950	U	No	1970	U	No	1970	U	No	986	U	No	1970	U	No	1970	U	No	1970	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	1980	U	No	2970	U	No	1980	U	No	1980	U	No	990	U	No	1980	U	No	1980	U	No	1980	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	1990	U	No	2980	U	No	1990	U	No	1990	U	No	993	U	No	1990	U	No	1990	U	No	1990	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	1970	U	No	2950	U	No	1970	U	No	1970	U	No	984	U	No	1970	U	No	1970	U	No	1970	U
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	1990	U	No	2980	U	No	1990	U	No	1990	U	No	995	U	No	1990	U	No	1990	U	No	1990	U
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	3980	U	No	5960	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	4000	U	No	6000	U	No	4000	U	No	4000	U	No	2000	U	No	4000	U	No	4000	U	No	4000	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	3980	U	No	5980	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	3960	U	No	5940	U	No	3960	U	No	3960	U	No	1980	U	No	3960	U	No	3960	U	No	3960	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	3940	U	No	5920	U	No	3940	U	No	3940	U	No	1970	U	No	3940	U	No	3940	U	No	3940	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	3980	U	No	5960	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	3970	U	No	5950	U	No	3970	U	No	3970	U	No	1980	U	No	3970	U	No	3970	U	No	3970	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	3980	U	No	5960	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	3980	U	No	5960	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	3940	U	No	5920	U	No	3940	U	No	3940	U	No	1970	U	No	3940	U	No	3940	U	No	3940	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	3980	U	No	5960	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	3970	U	No	5950	U	No	3970	U	No	3970	U	No	1980	U	No	3970	U	No	3970	U	No	3970	U
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	3950	U	No	5930	U	No	3950	U	No	3950	U	No	1980	U	No	3950	U	No	3950	U	No	3950	U
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	3980	U	No	5960	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	3980	U	No	5980	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	3960	U	No	5940	U	No	3960	U	No	3960	U	No	1980	U	No	3960	U	No	3960	U	No	3960	U
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	3940	U	No	5900	U	No	3940	U	No	3940	U	No	1970	U	No	3940	U	No	3940	U	No	3940	U
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	3950	U	No	5930	U	No	3950	U	No	3950	U	No	1980	U	No	3950	U	No	3950	U	No	3950	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	3980	U	No	5980	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	3990	U	No	5990	U	No	3990	U	No	3990	U	No	2000	U	No	3990	U	No	3990	U	No	3990	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	3980	U	No	5960	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	4000	U	No	6000	U	No	4000	U	No	4000	U	No	2000	U	No	4000	U	No	4000	U	No	4000	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	3940	U	No	5920	U	No	3940	U	No	3940	U	No	1970	U	No	3940	U	No	3940	U	No	3940	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	3980	U	No	5980	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	3990	U	No	5990	U	No	3990	U	No	3990	U	No	2000	U	No	3990	U	No	3990	U	No	3990	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	3950	U	No	5930	U	No	3950	U	No	3950	U	No	1980	U	No	3950	U	No	3950	U	No	3950	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	3940	U	No	5900	U	No	3940	U	No	3940	U	No	1970	U	No	3940	U	No	3940	U	No	3940	U
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	3970	U	No	5950	U	No	3970	U	No	3970	U	No	1980	U	No	3970	U	No	3970	U	No	3970	U
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	3990	U	No	5990	U	No	3990	U	No	3990	U	No	2000	U	No	3990	U	No	3990	U	No	3990	U
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	3960	U	No	5940	U	No	3960	U	No	3960	U	No	1980	U	No	3960	U	No	3960	U	No	3960	U
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	3980	U	No	5960	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	3940	U	No	5900	U	No	3940	U	No	3940	U	No	1970	U	No	3940	U	No	3940	U	No	3940	U
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	3950	U	No	5930	U	No	3950	U	No	3950	U	No	1980	U	No	3950	U	No	3950	U	No	3950	U
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	1990	U	No	2990	U	No	1990	U	No	1990	U	No	997	U	No	1990	U	No	1990	U	No	1990	U
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	1990	U	No	2990	U	No	1990	U	No	1990	U	No	997	U	No	1990	U	No	1990	U	No	1990	U
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	1980	U	No	2980	U	No	1980	U	No	1980	U	No	993	U	No	1980	U	No	1980	U	No	1980	U
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	1970	U	No	2950	U	No	1970	U	No	1970	U	No	987	U	No	1970	U	No	1970	U	No	1970	U
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	1970	U	No	2960	U	No	1970	U	No	1970	U	No	988	U	No	1970	U	No	1970	U	No	1970	U
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	3970	U	No	5950	U	No	3970	U	No	3970	U	No	1980	U	No	3970	U	No	3970	U	No	3970	U
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	3940	U	No	5920	U	No	3940	U	No	3940	U	No	1970	U	No	3940	U	No	3940	U	No	3940	U
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	3970	U	No	5950	U	No	3970	U	No	3970	U	No	1980	U	No	3970	U	No	3970	U	No	3970	U
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	3970	U	No	5950	U	No	3970	U	No	3970	U	No	1980	U	No	3970	U	No	3970	U	No	3970	U
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	4000	U	No	6000	U	No	4000	U	No	4000	U	No	2000	U	No	4000	U	No	4000	U	No	4000	U
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	3980	U	No	5960	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	3960	U	No	5940	U	No	3960	U	No	3960	U	No	1980	U	No	3960	U	No	3960	U	No	3960	U

BERA Tissue Chemistry Data from Above Dundee Dam

						n-Nitroso-di-n-propylamine			n-Nitrosodiphenylamine			Pentachlorophenol			Phenol		
						µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp01	No	3990	U	No	3990	U	No	12000	U	No	3990	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp02	No	3980	U	No	3980	U	No	11900	U	No	3980	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp03	No	4000	U	No	4000	U	No	12000	U	No	4000	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Comp04	No	3960	U	No	3960	U	No	11900	U	No	3960	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	9	UPR09-ARCT-Ind008	No	3990	U	No	3990	U	No	12000	U	No	3990	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Comp05	No	3950	U	No	3950	U	No	11800	U	No	3950	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind002	No	3960	U	No	3960	U	No	11900	U	No	3960	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind006	No	3980	U	No	3980	U	No	11900	U	No	3980	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind007	No	3920	U	No	3920	U	No	11800	U	No	3920	U	No
American eel	Carcass	2012 Upstream Tissue Sampling	10	UPR10-ARCT-Ind026	No	3990	U	No	3990	U	No	12000	U	No	3990	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp01	No	3940	U	No	3940	U	No	11800	U	No	3940	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp02	No	3950	U	No	3950	U	No	11800	U	No	3950	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp03	No	3950	U	No	3950	U	No	11800	U	No	3950	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Comp04	No	3950	U	No	3950	U	No	11800	U	No	3950	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ARFT-Ind008	No	3940	U	No	3940	U	No	11800	U	No	3940	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Comp05	No	3920	U	No	3920	U	No	11800	U	No	3920	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind002	No	3960	U	No	3960	U	No	11900	U	No	3960	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind006	No	3970	U	No	3970	U	No	11900	U	No	3970	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind007	No	3960	U	No	3960	U	No	11900	U	No	3960	U	No
American eel	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ARFT-Ind026	No	3950	U	No	3950	U	No	11800	U	No	3950	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind011	No	3990	U	No	3990	U	No	12000	U	No	3990	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind019	No	3930	U	No	3930	U	No	11800	U	No	3930	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind001	No	3940	U	No	3940	U	No	11800	U	No	3940	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind003	No	3920	U	No	3920	U	No	11800	U	No	3920	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind005	No	3940	U	No	3940	U	No	11800	U	No	3940	U	No
American eel	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind022	No	3980	U	No	3980	U	No	12000	U	No	3980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp01	No	1980	U	No	1980	U	No	5950	U	No	1980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp02	No	1980	U	No	1980	U	No	5930	U	No	1980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp03	No	1990	U	No	1990	U	No	5950	U	No	1990	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Comp04	No	1980	U	No	1980	U	No	5930	U	No	1980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-ARWB-Ind008	No	1980	U	No	1980	U	No	5950	U	No	1980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Comp05	No	1970	U	No	1970	U	No	5900	U	No	1970	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind002	No	1980	U	No	1980	U	No	5950	U	No	1980	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind006	No	1990	U	No	1990	U	No	5950	U	No	1990	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind007	No	1970	U	No	1970	U	No	5920	U	No	1970	U	No
American eel	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-ARWB-Ind026	No	1990	U	No	1990	U	No	5950	U	No	1990	U	No
Banded killifish	Whole body	2012 Upstream Tissue Sampling	9	UPR09-FDWB-Comp01	No	3980	U	No	3980	U	No	5730	J	Yes	3980	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind013	No	4000	U	No	4000	U	No	12000	U	No	4000	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind044	No	3980	U	No	3980	U	No	12000	U	No	3980	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-ANFT-Ind061	No	3960	U	No	3960	U	No	11900	U	No	3960	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind007	No	3940	U	No	3940	U	No	11800	U	No	3940	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind058	No	3980	U	No	3980	U	No	11900	U	No	3980	U	No
Brown bullhead	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-ANFT-Ind066	No	3970	U	No	3970	U	No	11900	U	No	3970	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind035	No	3980	U	No	3980	U	No	11900	U	No	3980	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind055	No	3980	U	No	3980	U	No	11900	U	No	3980	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	9	UPR09-ANWB-Ind057	No	3940	U	No	3940	U	No	11800	U	No	3940	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind004	No	3980	U	No	3980	U	No	11900	U	No	3980	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind006	No	3970	U	No	3970	U	No	11900	U	No	3970	U	No
Brown bullhead	Whole body	2012 Upstream Tissue Sampling	10	UPR10-ANWB-Ind052	No	3950	U	No	3950	U	No	11800	U	No	3950	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind008	No	3980	U	No	3980	U	No	11900	U	No	3980	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind011	No	3980	U	No	3980	U	No	12000	U	No	3980	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	9	UPR09-CCCT-Ind018	No	3960	U	No	3960	U	No	11900	U	No	3960	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind028	No	3940	U	No	3940	U	No	11800	U	No	3940	U	No
Carp	Carcass	2012 Upstream Tissue Sampling	10	UPR10-CCCT-Ind029	No	3950	U	No	3950	U	No	11800	U	No	3950	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind002	No	3980	U	No	3980	U	No	12000	U	No	3980	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind008	No	3990	U	No	3990	U	No	12000	U	No	3990	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind009	No	3980	U	No	3980	U	No	11900	U	No	3980	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind011	No	4000	U	No	4000	U	No	12000	U	No	4000	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind012	No	3940	U	No	3940	U	No	11800	U	No	3940	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind014	No	3980	U	No	3980	U	No	12000	U	No	3980	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-CCFT-Ind018	No	3990	U	No	3990	U	No	12000	U	No	3990	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind028	No	3950	U	No	3950	U	No	11800	U	No	3950	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind029	No	3940	U	No	3940	U	No	11800	U	No	3940	U	No
Carp	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-CCFT-Ind030	No	3970	U	No	3970	U	No	11900	U	No	3970	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind001	No	3990	U	No	3990	U	No	12000	U	No	3990	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind003	No	3960	U	No	3960	U	No	11900	U	No	3960	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind005	No	3980	U	No	3980	U	No	11900	U	No	3980	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind007	No	3940	U	No	3940	U	No	11800	U	No	3940	U	No
Carp	Whole body	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind016	No	3950	U	No	3950	U	No	11800	U	No	3950	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind008	No	1990	U	No	1990	U	No	5970	U	No	1990	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind011	No	1990	U	No	1990	U	No	6000	U	No	1990	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-CCWB-Ind018	No	1980	U	No	1980	U	No	5970	U	No	1980	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind028	No	1970	U	No	1970	U	No	5900	U	No	1970	U	No
Carp	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-CCWB-Ind029	No	1970	U	No	1970	U	No	5900	U	No	1970	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	9	UPR09-IPCT-Ind004	No	3970	U	No	3970	U	No	11900	U	No	3970	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind001	No	3940	U	No	3940	U	No	11800	U	No	3940	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind002	No	3970	U	No	3970	U	No	11900	U	No	3970	U	No
Channel catfish	Carcass	2012 Upstream Tissue Sampling	10	UPR10-IPCT-Ind003	No	3970	U	No	3970	U	No	11900	U	No	3970	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	9	UPR09-IPFT-Ind004	No	4000	U	No	4000	U	No	12000	U	No	4000	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind001	No	3980	U	No	3980	U	No	11900	U	No	3980	U	No
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind002	No	3960	U	No	3960	U	No	11900	U	No	3960	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	1,1'-Biphenyl µg/kg			2,2'-Oxybis(1-chloropropane) µg/kg			2,4,5-Trichlorophenol µg/kg			2,4,6-Trichlorophenol µg/kg		
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	4000	U	No	4000	U	No	4000	U	No	4000	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	1990	U	No	1990	U	No	1990	U	No	1990	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	1980	U	No	1980	U	No	1980	U	No	1980	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	1980	U	No	1980	U	No	1980	U	No	1980	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	1990	U	No	1990	U	No	1990	U	No	1990	U	No
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	3930	U	No	3930	U	No	3930	U	No	3930	U	No
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	3940	U	No	3940	U	No	3940	U	No	3940	U	No
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	1970	U	No	1970	U	No	1970	U	No	1970	U	No
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	3960	U	No	3960	U	No	3960	U	No	3960	U	No
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	3950	U	No	3950	U	No	3950	U	No	3950	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	3920	U	No	3920	U	No	3920	U	No	3920	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	3980	U	No	3980	U	No	3980	U	No	3980	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	3960	U	No	3960	U	No	3960	U	No	3960	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	3940	U	No	3940	U	No	3940	U	No	3940	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	3940	U	No	3940	U	No	3940	U	No	3940	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	3940	U	No	3940	U	No	3940	U	No	3940	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	1960	U	No	1960	U	No	1960	U	No	1960	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	1980	U	No	1980	U	No	1980	U	No	1980	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	1980	U	No	1980	U	No	1980	U	No	1980	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	3940	U	No	3940	U	No	3940	U	No	3940	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	3980	U	No	3980	U	No	3980	U	No	3980	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	3980	U	No	3980	U	No	3980	U	No	3980	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	3930	U	No	3930	U	No	3930	U	No	3930	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	3920	U	No	3920	U	No	3920	U	No	3920	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	3990	U	No	3990	U	No	3990	U	No	3990	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	3950	U	No	3950	U	No	3950	U	No	3950	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	3980	U	No	3980	U	No	3980	U	No	3980	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	3990	U	No	3990	U	No	3990	U	No	3990	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	3940	U	No	3940	U	No	3940	U	No	3940	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	3990	U	No	3990	U	No	3990	U	No	3990	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	3940	U	No	3940	U	No	3940	U	No	3940	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	3980	U	No	3980	U	No	3980	U	No	3980	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	3980	U	No	3980	U	No	3980	U	No	3980	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	4000	U	No	4000	U	No	4000	U	No	4000	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	3920	U	No	3920	U	No	3920	U	No	3920	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	1980	U	No	1980	U	No	1980	U	No	1980	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	1980	U	No	1980	U	No	1980	U	No	1980	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	1990	U	No	1990	U	No	1990	U	No	1990	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	1970	U	No	1970	U	No	1970	U	No	1970	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	1970	U	No	1970	U	No	1970	U	No	1970	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	1990	U	No	1990	U	No	1990	U	No	1990	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	1990	U	No	1990	U	No	1990	U	No	1990	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	1980	U	No	1980	U	No	1980	U	No	1980	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	3980	U	No	3980	U	No	3980	U	No	3980	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	3940	U	No	3940	U	No	3940	U	No	3940	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	4000	U	No	4000	U	No	4000	U	No	4000	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	3940	U	No	3940	U	No	3940	U	No	3940	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	3930	U	No	3930	U	No	3930	U	No	3930	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	3950	U	No	3950	U	No	3950	U	No	3950	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	4000	U	No	4000	U	No	4000	U	No	4000	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	3920	U	No	3920	U	No	3920	U	No	3920	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	3920	U	No	3920	U	No	3920	U	No	3920	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	3950	U	No	3950	U	No	3950	U	No	3950	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	1980	U	No	1980	U	No	1980	U	No	1980	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	1980	U	No	1980	U	No	1980	U	No	1980	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	1980	U	No	1980	U	No	1980	U	No	1980	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	1970	U	No	1970	U	No	1970	U	No	1970	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	1970	U	No	1970	U	No	1970	U	No	1970	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	2,4-Dichlorophenol µg/kg			2,4-Dimethylphenol µg/kg			2,4-Dinitrophenol µg/kg			2,4-Dinitrotoluene µg/kg			2,6-Dinitrotoluene µg/kg			2-Chloronaphthalene µg/kg			2-Chlorophenol µg/kg			2-Methylphen µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	4000	U	No	4000	U	No	24000	U	No	6000	U	No	2000	U	No	4000	U	No	2000	U	No	4000	U
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	1990	U	No	1990	U	No	11900	U	No	2980	U	No	992	U	No	1990	U	No	992	U	No	1990	U
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	1980	U	No	1980	U	No	11900	U	No	2970	U	No	988	U	No	1980	U	No	988	U	No	1980	U
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	1980	U	No	1980	U	No	11900	U	No	2970	U	No	990	U	No	1980	U	No	990	U	No	1980	U
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	1990	U	No	1990	U	No	11900	U	No	2980	U	No	993	U	No	1990	U	No	993	U	No	1990	U
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	3930	U	No	3930	U	No	23600	U	No	5890	U	No	1960	U	No	3930	U	No	1960	U	No	3930	U
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	3940	U	No	3940	U	No	23600	U	No	5900	U	No	1970	U	No	3940	U	No	1970	U	No	3940	U
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	1970	U	No	1970	U	No	11800	U	No	2950	U	No	982	U	No	1970	U	No	982	U	No	1970	U
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	3960	U	No	3960	U	No	23800	UJ	No	5940	U	No	1980	U	No	3960	U	No	1980	U	No	3960	U
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	3950	U	No	3950	U	No	23700	UJ	No	5930	U	No	1980	U	No	3950	U	No	1980	U	No	3950	U
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	3920	U	No	3920	U	No	23500	U	No	5880	U	No	1960	U	No	3920	U	No	1960	U	No	3920	U
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	3980	U	No	3980	U	No	23900	U	No	5980	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	3960	U	No	3960	U	No	23800	U	No	5940	U	No	1980	U	No	3960	U	No	1980	U	No	3960	U
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	3940	U	No	3940	U	No	23700	U	No	5920	U	No	1970	U	No	3940	U	No	1970	U	No	3940	U
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	3940	U	No	3940	U	No	23600	U	No	5900	U	No	1970	U	No	3940	U	No	1970	U	No	3940	U
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	3940	U	No	3940	U	No	23600	U	No	5900	U	No	1970	U	No	3940	U	No	1970	U	No	3940	U
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	1960	U	No	1960	U	No	11800	U	No	2950	U	No	982	U	No	1960	U	No	982	U	No	1960	U
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	1980	U	No	1980	U	No	11900	U	No	2970	U	No	991	U	No	1980	U	No	991	U	No	1980	U
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	1980	U	No	1980	U	No	11900	U	No	2960	U	No	988	U	No	1980	U	No	988	U	No	1980	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	3940	U	No	3940	U	No	23600	UJ	No	5900	U	No	1970	U	No	3940	U	No	1970	U	No	3940	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	3980	U	No	3980	U	No	23900	UJ	No	5980	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	3980	U	No	3980	U	No	23800	UJ	No	5960	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	3930	U	No	3930	U	No	23600	UJ	No	5890	U	No	1960	U	No	3930	U	No	1960	U	No	3930	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	3920	U	No	3920	U	No	23500	UJ	No	5880	U	No	1960	U	No	3920	U	No	1960	U	No	3920	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	3990	U	No	3990	U	No	24000	UJ	No	5990	U	No	2000	U	No	3990	U	No	2000	U	No	3990	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	3950	U	No	3950	U	No	23700	UJ	No	5930	U	No	1980	U	No	3950	U	No	1980	U	No	3950	U
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	3980	U	No	3980	U	No	23900	UJ	No	5980	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	3990	U	No	3990	U	No	24000	UJ	No	5990	U	No	2000	U	No	3990	U	No	2000	U	No	3990	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	3940	U	No	3940	U	No	23700	UJ	No	5920	U	No	1970	U	No	3940	U	No	1970	U	No	3940	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	3990	U	No	3990	U	No	24000	UJ	No	5990	U	No	2000	U	No	3990	U	No	2000	U	No	3990	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	3940	U	No	3940	U	No	23700	UJ	No	5920	U	No	1970	U	No	3940	U	No	1970	U	No	3940	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	3980	U	No	3980	U	No	23900	UJ	No	5980	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	3980	U	No	3980	U	No	23800	UJ	No	5960	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	4000	U	No	4000	U	No	24000	UJ	No	6000	U	No	2000	U	No	4000	U	No	2000	U	No	4000	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	3920	U	No	3920	U	No	23500	UJ	No	5880	U	No	1960	U	No	3920	U	No	1960	U	No	3920	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	1980	U	No	1980	U	No	11900	UJ	No	2970	U	No	991	U	No	1980	U	No	991	U	No	1980	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	1980	U	No	1980	U	No	11900	UJ	No	2980	U	No	991	U	No	1980	U	No	991	U	No	1980	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	1990	U	No	1990	U	No	11900	UJ	No	2990	U	No	997	U	No	1990	U	No	997	U	No	1990	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	1970	U	No	1970	U	No	11800	UJ	No	2950	U	No	982	U	No	1970	U	No	982	U	No	1970	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	1970	U	No	1970	U	No	11800	UJ	No	2960	U	No	986	U	No	1970	U	No	986	U	No	1970	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	1990	U	No	1990	U	No	12000	UJ	No	2990	U	No	998	U	No	1990	U	No	998	U	No	1990	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	1990	U	No	1990	U	No	11900	UJ	No	2980	U	No	994	U	No	1990	U	No	994	U	No	1990	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	1980	U	No	1980	U	No	11900	UJ	No	2970	U	No	989	U	No	1980	U	No	989	U	No	1980	U
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	3980	U	No	3980	U	No	23900	U	No	5980	U	No	1990	U	No	3980	U	No	1990	U	No	3980	U
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	3940	U	No	3940	U	No	23700	U	No	5920	U	No	1970	U	No	3940	U	No	1970	U	No	3940	U
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	4000	U	No	4000	U	No	24000	U	No	6000	U	No	2000	U	No	4000	U	No	2000	U	No	4000	U
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	3940	U	No	3940	U	No	23600	U	No	5900	U	No	1970	U	No	3940	U	No	1970	U	No	3940	U
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	3930	U	No	3930	U	No	23600	U	No	5890	U	No	1960	U	No	3930	U	No	1960	U	No	3930	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	3950	U	No	3950	U	No	23700	U	No	5930	U	No	1980	U	No	3950	U	No	1980	U	No	3950	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	4000	U	No	4000	U	No	24000	U	No	6000	U	No	2000	U	No	4000	U	No	2000	U	No	4000	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	3920	U	No	3920	U	No	23500	U	No	5880	U	No	1960	U	No	3920	U	No	1960	U	No	3920	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	3920	U	No	3920	U	No	23500	U	No	5880	U	No	1960	U	No	3920	U	No	1960	U	No	3920	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	3950	U	No	3950	U	No	23700	U	No	5930	U	No	1980	U	No	3950	U	No	1980	U	No	3950	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	1980	U	No	1980	U	No	11900	U	No	2980	U	No	993	U	No	1980	U	No	993	U	No	1980	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	1980	U	No	1980	U	No	11900	U	No	2970	U	No	990	U	No	1980	U	No	990	U	No	1980	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	1980	U	No	1980	U	No	11900	U	No	2970	U	No	991	U	No	1980	U	No	991	U	No	1980	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	1970	U	No	1970	U	No	11800	U	No	2950	U	No	983	U	No	1970	U	No	983	U	No	1970	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	1970	U	No	1970	U	No	11800	U	No	2950	U	No	984	U	No	1970	U	No	984	U	No	1970	U

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	No
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	No
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	No
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	No
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	No
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	No
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	No

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	2-Nitroaniline µg/kg			2-Nitrophenol µg/kg			3,3'-Dichlorobenzidine µg/kg			3-Nitroaniline µg/kg			4,6-Dinitro-2-methylphenol µg/kg			4-Bromophenyl-phenylether µg/kg			4-Chloro-3-methylphenol µg/kg			4-Chloroanilin µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	2000	U	No	4000	U	No	6000	U	No	2000	U	No	20000	U	No	4000	U	No	6000	U	No	2000	U
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	992	U	No	1990	U	No	2980	U	No	992	U	No	9920	U	No	1990	U	No	2980	U	No	992	U
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	988	U	No	1980	U	No	2970	U	No	988	U	No	9880	U	No	1980	U	No	2970	U	No	988	U
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	990	U	No	1980	U	No	2970	U	No	990	U	No	9900	U	No	1980	U	No	2970	U	No	990	U
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	993	U	No	1990	U	No	2980	U	No	993	U	No	9930	U	No	1990	U	No	2980	U	No	993	U
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	1960	U	No	3930	U	No	5890	U	No	1960	U	No	19600	U	No	3930	U	No	5890	U	No	1960	U
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	1970	U	No	3940	U	No	5900	U	No	1970	U	No	19700	U	No	3940	U	No	5900	U	No	1970	U
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	982	U	No	1970	U	No	2950	U	No	982	U	No	9820	U	No	1970	U	No	2950	U	No	982	U
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	1980	U	No	3960	U	No	5940	U	No	1980	U	No	19800	U	No	3960	U	No	5940	U	No	1980	U
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	1980	U	No	3950	U	No	5930	U	No	1980	U	No	19800	U	No	3950	U	No	5930	U	No	1980	U
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	1960	U	No	3920	U	No	5880	U	No	1960	U	No	19600	U	No	3920	U	No	5880	U	No	1960	UJ
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	1990	U	No	3980	U	No	5980	U	No	1990	U	No	19900	U	No	3980	U	No	5980	U	No	1990	UJ
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	1980	U	No	3960	U	No	5940	U	No	1980	U	No	19800	U	No	3960	U	No	5940	U	No	1980	UJ
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	1970	U	No	3940	U	No	5920	U	No	1970	U	No	19700	U	No	3940	U	No	5920	U	No	1970	UJ
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	1970	U	No	3940	U	No	5900	U	No	1970	U	No	19700	U	No	3940	U	No	5900	U	No	1970	UJ
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	1970	U	No	3940	U	No	5900	U	No	1970	U	No	19700	U	No	3940	U	No	5900	U	No	1970	UJ
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	982	U	No	1960	U	No	2950	U	No	982	U	No	9820	U	No	1960	U	No	2950	U	No	982	UJ
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	991	U	No	1980	U	No	2970	U	No	991	U	No	9910	U	No	1980	U	No	2970	U	No	991	UJ
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	988	U	No	1980	U	No	2960	U	No	988	U	No	9880	U	No	1980	U	No	2960	U	No	988	UJ
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	1970	U	No	3940	U	No	5900	U	No	1970	U	No	19700	U	No	3940	U	No	5900	U	No	1970	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	1990	U	No	3980	U	No	5980	U	No	1990	U	No	19900	U	No	3980	U	No	5980	U	No	1990	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	1990	U	No	3980	U	No	5960	U	No	1990	U	No	19900	U	No	3980	U	No	5960	U	No	1990	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	1960	U	No	3930	U	No	5890	U	No	1960	U	No	19600	U	No	3930	U	No	5890	U	No	1960	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	1960	U	No	3920	U	No	5880	U	No	1960	U	No	19600	U	No	3920	U	No	5880	U	No	1960	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	2000	U	No	3990	U	No	5990	U	No	2000	U	No	20000	U	No	3990	U	No	5990	U	No	2000	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	1980	U	No	3950	U	No	5930	U	No	1980	U	No	19800	U	No	3950	U	No	5930	U	No	1980	U
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	1990	U	No	3980	U	No	5980	U	No	1990	U	No	19900	U	No	3980	U	No	5980	U	No	1990	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	2000	U	No	3990	U	No	5990	U	No	2000	U	No	20000	U	No	3990	U	No	5990	U	No	2000	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	1970	U	No	3940	U	No	5920	U	No	1970	U	No	19700	U	No	3940	U	No	5920	U	No	1970	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	2000	U	No	3990	U	No	5990	U	No	2000	U	No	20000	U	No	3990	U	No	5990	U	No	2000	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	1970	U	No	3940	U	No	5920	U	No	1970	U	No	19700	U	No	3940	U	No	5920	U	No	1970	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	1990	U	No	3980	U	No	5980	U	No	1990	U	No	19900	U	No	3980	U	No	5980	U	No	1990	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	1990	U	No	3980	U	No	5960	U	No	1990	U	No	19900	U	No	3980	U	No	5960	U	No	1990	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	2000	U	No	4000	U	No	6000	U	No	2000	U	No	20000	U	No	4000	U	No	6000	U	No	2000	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	1960	U	No	3920	U	No	5880	U	No	1960	U	No	19600	U	No	3920	U	No	5880	U	No	1960	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	991	U	No	1980	U	No	2970	U	No	991	U	No	9910	U	No	1980	U	No	2970	U	No	991	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	991	U	No	1980	U	No	2980	U	No	991	U	No	9910	U	No	1980	U	No	2980	U	No	991	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	997	U	No	1990	U	No	2990	U	No	997	U	No	9970	U	No	1990	U	No	2990	U	No	997	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	982	U	No	1970	U	No	2950	U	No	982	U	No	9820	U	No	1970	U	No	2950	U	No	982	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	986	U	No	1970	U	No	2960	U	No	986	U	No	9860	U	No	1970	U	No	2960	U	No	986	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	998	U	No	1990	U	No	2990	U	No	998	U	No	9980	U	No	1990	U	No	2990	U	No	998	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	994	U	No	1990	U	No	2980	U	No	994	U	No	9940	U	No	1990	U	No	2980	U	No	994	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	989	U	No	1980	U	No	2970	U	No	989	U	No	9890	U	No	1980	U	No	2970	U	No	989	U
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	1990	U	No	3980	U	No	5980	U	No	1990	U	No	19900	U	No	3980	U	No	5980	U	No	1990	U
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	1970	U	No	3940	U	No	5920	U	No	1970	U	No	19700	U	No	3940	U	No	5920	U	No	1970	U
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	2000	U	No	4000	U	No	6000	U	No	2000	U	No	20000	U	No	4000	U	No	6000	U	No	2000	U
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	1970	U	No	3940	U	No	5900	U	No	1970	U	No	19700	U	No	3940	U	No	5900	U	No	1970	U
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	1960	U	No	3930	U	No	5890	U	No	1960	U	No	19600	U	No	3930	U	No	5890	U	No	1960	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	1980	U	No	3950	U	No	5930	U	No	1980	U	No	19800	U	No	3950	U	No	5930	U	No	1980	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	2000	U	No	4000	U	No	6000	U	No	2000	U	No	20000	U	No	4000	U	No	6000	U	No	2000	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	1960	U	No	3920	U	No	5880	U	No	1960	U	No	19600	U	No	3920	U	No	5880	U	No	1960	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	1960	U	No	3920	U	No	5880	U	No	1960	U	No	19600	U	No	3920	U	No	5880	U	No	1960	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	1980	U	No	3950	U	No	5930	U	No	1980	U	No	19800	U	No	3950	U	No	5930	U	No	1980	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	993	U	No	1980	U	No	2980	U	No	993	U	No	9930	U	No	1980	U	No	2980	U	No	993	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	990	U	No	1980	U	No	2970	U	No	990	U	No	9900	U	No	1980	U	No	2970	U	No	990	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	991	U	No	1980	U	No	2970	U	No	991	U	No	9910	U	No	1980	U	No	2970	U	No	991	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	983	U	No	1970	U	No	2950	U	No	983	U	No	9830	U	No	1970	U	No	2950	U	No	983	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	984	U	No	1970	U	No	2950	U	No	984	U	No	9840	U	No	1970	U	No	2950	U	No	984	U

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	e Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	No
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	No
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	No
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	No
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	No
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	No
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	No

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	4-Chlorophenyl-phenylether µg/kg			4-Methylphenol µg/kg			4-Nitroaniline µg/kg			4-Nitrophenol µg/kg			Acetophenone µg/kg			Atrazine µg/kg		
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	2000	U	No	4000	U	No	2000	U	No	40000	U	No	4000	U	No	4000	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	992	U	No	1990	U	No	992	U	No	19900	U	No	1990	U	No	1990	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	988	U	No	1980	U	No	988	U	No	19800	U	No	1980	U	No	1980	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	990	U	No	1980	U	No	990	U	No	19800	U	No	1980	U	No	1980	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	993	U	No	1990	U	No	993	U	No	19900	U	No	1990	U	No	1990	U	No
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	1960	U	No	3930	U	No	1960	U	No	39300	U	No	3930	U	No	3930	U	No
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	1970	U	No	3940	U	No	1970	U	No	39400	U	No	3940	U	No	3940	U	No
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	982	U	No	1970	U	No	982	U	No	19700	U	No	1970	U	No	1970	U	No
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	1980	U	No	3960	U	No	1980	U	No	39600	U	No	3960	U	No	3960	U	No
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	1980	U	No	3950	U	No	1980	U	No	39500	U	No	3950	U	No	3950	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	1960	U	No	3920	U	No	1960	U	No	39200	U	No	3920	U	No	3920	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	1990	U	No	3980	U	No	1990	U	No	39800	U	No	3980	U	No	3980	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	1980	U	No	3960	U	No	1980	U	No	39600	U	No	3960	U	No	3960	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	1970	U	No	3940	U	No	1970	U	No	39400	U	No	3940	U	No	3940	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	1970	U	No	3940	U	No	1970	U	No	39400	U	No	3940	U	No	3940	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	1970	U	No	3940	U	No	1970	U	No	39400	U	No	3940	U	No	3940	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	982	U	No	1960	U	No	982	U	No	19600	U	No	1960	U	No	1960	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	991	U	No	1980	U	No	991	U	No	19800	U	No	1980	U	No	1980	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	988	U	No	1980	U	No	988	U	No	19800	U	No	1980	U	No	1980	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	1970	U	No	3940	U	No	1970	U	No	39400	U	No	3940	U	No	3940	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	1990	U	No	3980	U	No	1990	U	No	39800	U	No	3980	U	No	3980	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	1990	U	No	3980	U	No	1990	U	No	39800	U	No	3980	U	No	3980	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	1960	U	No	3930	U	No	1960	U	No	39300	U	No	3930	U	No	3930	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	1960	U	No	3920	U	No	1960	U	No	39200	U	No	3920	U	No	3920	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	2000	U	No	3990	U	No	2000	U	No	39900	U	No	3990	U	No	3990	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	1980	U	No	3950	U	No	1980	U	No	39500	U	No	3950	U	No	3950	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	1990	U	No	3980	U	No	1990	U	No	39800	U	No	3980	U	No	3980	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	2000	U	No	3990	U	No	2000	U	No	39900	U	No	3990	U	No	3990	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	1970	U	No	3940	U	No	1970	U	No	39400	U	No	3940	U	No	3940	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	2000	U	No	3990	U	No	2000	U	No	39900	U	No	3990	U	No	3990	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	1970	U	No	3940	U	No	1970	U	No	39400	U	No	3940	U	No	3940	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	1990	U	No	3980	U	No	1990	U	No	39800	U	No	3980	U	No	3980	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	1990	U	No	3980	U	No	1990	U	No	39800	U	No	3980	U	No	3980	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	2000	U	No	4000	U	No	2000	U	No	40000	U	No	4000	U	No	4000	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	1960	U	No	3920	U	No	1960	U	No	39200	U	No	3920	U	No	3920	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	991	U	No	1980	U	No	991	U	No	19800	U	No	1980	U	No	1980	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	991	U	No	1980	U	No	991	U	No	19800	U	No	1980	U	No	1980	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	997	U	No	1990	U	No	997	U	No	19900	U	No	1990	U	No	1990	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	982	U	No	1970	U	No	982	U	No	19700	U	No	1970	U	No	1970	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	986	U	No	1970	U	No	986	U	No	19700	U	No	1970	U	No	1970	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	998	U	No	1990	U	No	998	U	No	19900	U	No	1990	U	No	1990	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	994	U	No	1990	U	No	994	U	No	19900	U	No	1990	U	No	1990	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	989	U	No	1980	U	No	989	U	No	19800	U	No	1980	U	No	1980	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	1990	U	No	3980	U	No	1990	U	No	39800	U	No	3980	U	No	3980	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	1970	U	No	3940	U	No	1970	U	No	39400	U	No	3940	U	No	3940	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	2000	U	No	4000	U	No	2000	U	No	40000	U	No	4000	U	No	4000	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	1970	U	No	3940	U	No	1970	U	No	39400	U	No	3940	U	No	3940	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	1960	U	No	3930	U	No	1960	U	No	39300	U	No	3930	U	No	3930	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	1980	U	No	3950	U	No	1980	U	No	39500	U	No	3950	U	No	3950	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	2000	U	No	4000	U	No	2000	U	No	40000	U	No	4000	U	No	4000	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	1960	U	No	3920	U	No	1960	U	No	39200	U	No	3920	U	No	3920	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	1960	U	No	3920	U	No	1960	U	No	39200	U	No	3920	U	No	3920	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	1980	U	No	3950	U	No	1980	U	No	39500	U	No	3950	U	No	3950	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	993	U	No	1980	U	No	993	U	No	19800	U	No	1980	U	No	1980	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	990	U	No	1980	U	No	990	U	No	19800	U	No	1980	U	No	1980	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	991	U	No	1980	U	No	991	U	No	19800	U	No	1980	U	No	1980	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	983	U	No	1970	U	No	983	U	No	19700	U	No	1970	U	No	1970	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	984	U	No	1970	U	No	984	U	No	19700	U	No	1970	U	No	1970	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	Benzaldehyde µg/kg			Bis-(2-chloroethoxy)methane µg/kg			Bis-(2-chloroethyl)ether µg/kg			Bis-(2-ethylhexyl)phthalate µg/kg			Butylbenzylphthalate µg/kg			Caprolactam µg/kg			Carbazole µg/kg			Dibenzofurar µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	30000	U	No	4000	U	No	4000	U	No	8000	U	No	4000	U	No	4000	U	No	4000	U	No	4000	U
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	14900	U	No	1990	U	No	1990	U	No	3980	U	No	1990	U	No	1990	U	No	1990	U	No	1990	U
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	14800	U	No	1980	U	No	1980	U	No	3950	U	No	1980	U	No	1980	U	No	1980	U	No	1980	U
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	14900	U	No	1980	U	No	1980	U	No	3970	U	No	1980	U	No	1980	U	No	1980	U	No	1980	U
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	14900	U	No	1990	U	No	1990	U	No	3980	U	No	1990	U	No	1990	U	No	1990	U	No	1990	U
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	29500	U	No	3930	U	No	3930	U	No	7860	U	No	3930	U	No	3930	U	No	3930	U	No	3930	U
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	29500	U	No	3940	U	No	3940	U	No	7870	U	No	3940	U	No	3940	U	No	3940	U	No	3940	U
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	14800	U	No	1970	U	No	1970	U	No	3930	U	No	1970	U	No	1970	U	No	1970	U	No	1970	U
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	29700	U	No	3960	U	No	3960	U	No	7920	U	No	3960	U	No	3960	U	No	3960	U	No	3960	U
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	29600	U	No	3950	U	No	3950	U	No	7900	U	No	3950	U	No	3950	U	No	3950	U	No	3950	U
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	29400	U	No	3920	U	No	3920	U	No	7840	U	No	3920	U	No	3920	U	No	3920	U	No	3920	U
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	29900	U	No	3980	U	No	3980	U	No	7970	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	29700	U	No	3960	U	No	3960	U	No	7920	U	No	3960	U	No	3960	U	No	3960	U	No	3960	U
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	29600	U	No	3940	U	No	3940	U	No	7890	U	No	3940	U	No	3940	U	No	3940	U	No	3940	U
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	29500	U	No	3940	U	No	3940	U	No	7870	U	No	3940	U	No	3940	U	No	3940	U	No	3940	U
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	29500	U	No	3940	U	No	3940	U	No	7870	U	No	3940	U	No	3940	U	No	3940	U	No	3940	U
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	14700	U	No	1960	U	No	1960	U	No	3930	U	No	1960	U	No	1960	U	No	1960	U	No	1960	U
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	14900	U	No	1980	U	No	1980	U	No	3960	U	No	1980	U	No	1980	U	No	1980	U	No	1980	U
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	14800	U	No	1980	U	No	1980	U	No	3950	U	No	1980	U	No	1980	U	No	1980	U	No	1980	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	29500	U	No	3940	U	No	3940	U	No	7870	U	No	3940	U	No	3940	U	No	3940	U	No	3940	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	29900	U	No	3980	U	No	3980	U	No	7970	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	29800	U	No	3980	U	No	3980	U	No	7950	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	29500	U	No	3930	U	No	3930	U	No	7860	U	No	3930	U	No	3930	U	No	3930	U	No	3930	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	29400	U	No	3920	U	No	3920	U	No	7840	U	No	3920	U	No	3920	U	No	3920	U	No	3920	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	29900	U	No	3990	U	No	3990	U	No	7980	U	No	3990	U	No	3990	U	No	3990	U	No	3990	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	29600	U	No	3950	U	No	3950	U	No	7900	U	No	3950	U	No	3950	U	No	3950	U	No	3950	U
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	29900	U	No	3980	U	No	3980	U	No	7970	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	29900	U	No	3990	U	No	3990	U	No	7980	U	No	3990	U	No	3990	U	No	3990	U	No	3990	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	29600	U	No	3940	U	No	3940	U	No	7890	U	No	3940	U	No	3940	U	No	3940	U	No	3940	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	29900	U	No	3990	U	No	3990	U	No	7980	U	No	3990	U	No	3990	U	No	3990	U	No	3990	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	29600	U	No	3940	U	No	3940	U	No	7890	U	No	3940	U	No	3940	U	No	3940	U	No	3940	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	29900	U	No	3980	U	No	3980	U	No	7970	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	29800	U	No	3980	U	No	3980	U	No	7950	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	30000	U	No	4000	U	No	4000	U	No	8000	U	No	4000	U	No	4000	U	No	4000	U	No	4000	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	29400	U	No	3920	U	No	3920	U	No	7840	U	No	3920	U	No	3920	U	No	3920	U	No	3920	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	14800	U	No	1980	U	No	1980	U	No	3960	U	No	1980	U	No	1980	U	No	1980	U	No	1980	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	14900	U	No	1980	U	No	1980	U	No	3970	U	No	1980	U	No	1980	U	No	1980	U	No	1980	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	14900	U	No	1990	U	No	1990	U	No	3980	U	No	1990	U	No	1990	U	No	1990	U	No	1990	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	14800	U	No	1970	U	No	1970	U	No	3940	U	No	1970	U	No	1970	U	No	1970	U	No	1970	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	14800	U	No	1970	U	No	1970	U	No	3950	U	No	1970	U	No	1970	U	No	1970	U	No	1970	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	14900	U	No	1990	U	No	1990	U	No	3980	U	No	1990	U	No	1990	U	No	1990	U	No	1990	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	14900	U	No	1990	U	No	1990	U	No	3970	U	No	1990	U	No	1990	U	No	1990	U	No	1990	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	14800	U	No	1980	U	No	1980	U	No	3960	U	No	1980	U	No	1980	U	No	1980	U	No	1980	U
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	29900	U	No	3980	U	No	3980	U	No	7970	U	No	3980	U	No	3980	U	No	3980	U	No	3980	U
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	29600	U	No	3940	U	No	3940	U	No	7890	U	No	3940	U	No	3940	U	No	3940	U	No	3940	U
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	30000	U	No	4000	U	No	4000	U	No	8000	U	No	4000	U	No	4000	U	No	4000	U	No	4000	U
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	29500	U	No	3940	U	No	3940	U	No	7870	U	No	3940	U	No	3940	U	No	3940	U	No	3940	U
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	29500	U	No	3930	U	No	3930	U	No	7860	U	No	3930	U	No	3930	U	No	3930	U	No	3930	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	29600	U	No	3950	U	No	3950	U	No	7900	U	No	3950	U	No	3950	U	No	3950	U	No	3950	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	30000	U	No	4000	U	No	4000	U	No	8000	U	No	4000	U	No	4000	U	No	4000	U	No	4000	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	29400	U	No	3920	U	No	3920	U	No	7840	U	No	3920	U	No	3920	U	No	3920	U	No	3920	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	29400	U	No	3920	U	No	3920	U	No	7840	U	No	3920	U	No	3920	U	No	3920	U	No	3920	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	29600	U	No	3950	U	No	3950	U	No	7900	U	No	3950	U	No	3950	U	No	3950	U	No	3950	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	14900	U	No	1980	U	No	1980	U	No	3970	U	No	1980	U	No	1980	U	No	1980	U	No	1980	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	14900	U	No	1980	U	No	1980	U	No	3960	U	No	1980	U	No	1980	U	No	1980	U	No	1980	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	14900	U	No	1980	U	No	1980	U	No	3970	U	No	1980	U	No	1980	U	No	1980	U	No	1980	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	14700	U	No	1970	U	No	1970	U	No	3930	U	No	1970	U	No	1970	U	No	1970	U	No	1970	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	14800	U	No	1970	U	No	1970	U	No	3940	U	No	1970	U	No	1970	U	No	1970	U	No	1970	U

BERA Tissue Chemistry Data from Above Dundee Dam

						Diethylphthalate		
						µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	No	4000	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	No	1990	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	No	1980	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	No	1980	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	No	1990	U	No
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	No	3930	U	No
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	No	3940	U	No
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	No	1970	U	No
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	No	3960	U	No
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	No	3950	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	No	3920	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	No	3980	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	No	3960	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	No	3940	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	No	3940	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	No	3940	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	No	1960	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	No	1980	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	No	1980	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	No	3940	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	No	3980	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	No	3980	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	No	3930	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	No	3920	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	No	3990	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	No	3950	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	No	3980	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	No	3990	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	No	3940	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	No	3990	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	No	3940	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	No	3980	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	No	3980	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	No	4000	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	No	3920	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	No	1980	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	No	1980	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	No	1990	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	No	1970	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	No	1970	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	No	1990	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	No	1990	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	No	1980	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	No	3980	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	No	3940	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	No	4000	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	No	3940	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	No	3930	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	No	3950	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	No	4000	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	No	3920	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	No	3920	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	No	3950	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	No	1980	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	No	1980	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	No	1980	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	No	1970	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	No	1970	U	No

BERA Tissue Chemistry Data from Above Dundee Dam

Species	Tissue Type	Event	Reach	Sample ID	Dimethylphthalate µg/kg			Di-n-butylphthalate µg/kg			Di-n-octylphthalate µg/kg			Hexachlorobutadiene µg/kg			Hexachlorocyclopentadiene µg/kg			Hexachloroethane µg/kg			Isophorone µg/kg			Nitrobenzene µg/kg	
					Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	4000	U	No	6000	U	No	4000	U	No	4000	U	No	2000	U	No	4000	U	No	4000	U	No	4000	U
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	1990	U	No	2980	U	No	1990	U	No	1990	U	No	992	U	No	1990	U	No	1990	U	No	1990	U
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	1980	U	No	2970	U	No	1980	U	No	1980	U	No	988	U	No	1980	U	No	1980	U	No	1980	U
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	1980	U	No	2970	U	No	1980	U	No	1980	U	No	990	U	No	1980	U	No	1980	U	No	1980	U
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	1990	U	No	2980	U	No	1990	U	No	1990	U	No	993	U	No	1990	U	No	1990	U	No	1990	U
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	3930	U	No	5890	U	No	3930	U	No	3930	U	No	1960	U	No	3930	U	No	3930	U	No	3930	U
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	3940	U	No	5900	U	No	3940	U	No	3940	U	No	1970	U	No	3940	U	No	3940	U	No	3940	U
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	1970	U	No	2950	U	No	1970	U	No	1970	U	No	982	U	No	1970	U	No	1970	U	No	1970	U
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	3960	U	No	5940	U	No	3960	U	No	3960	U	No	1980	U	No	3960	U	No	3960	U	No	3960	U
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	3950	U	No	5930	U	No	3950	U	No	3950	U	No	1980	U	No	3950	U	No	3950	U	No	3950	U
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	3920	U	No	5880	U	No	3920	U	No	3920	U	No	1960	U	No	3920	U	No	3920	U	No	3920	U
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	3980	U	No	5980	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	3960	U	No	5940	U	No	3960	U	No	3960	U	No	1980	U	No	3960	U	No	3960	U	No	3960	U
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	3940	U	No	5920	U	No	3940	U	No	3940	U	No	1970	U	No	3940	U	No	3940	U	No	3940	U
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	3940	U	No	5900	U	No	3940	U	No	3940	U	No	1970	U	No	3940	U	No	3940	U	No	3940	U
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	3940	U	No	5900	U	No	3940	U	No	3940	U	No	1970	U	No	3940	U	No	3940	U	No	3940	U
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	1960	U	No	2950	U	No	1960	U	No	1960	U	No	982	U	No	1960	U	No	1960	U	No	1960	U
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	1980	U	No	2970	U	No	1980	U	No	1980	U	No	991	U	No	1980	U	No	1980	U	No	1980	U
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	1980	U	No	2960	U	No	1980	U	No	1980	U	No	988	U	No	1980	U	No	1980	U	No	1980	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	3940	U	No	5900	U	No	3940	U	No	3940	U	No	1970	U	No	3940	U	No	3940	U	No	3940	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	3980	U	No	5980	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	3980	U	No	5960	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	3930	U	No	5890	U	No	3930	U	No	3930	U	No	1960	U	No	3930	U	No	3930	U	No	3930	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	3920	U	No	5880	U	No	3920	U	No	3920	U	No	1960	U	No	3920	U	No	3920	U	No	3920	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	3990	U	No	5990	U	No	3990	U	No	3990	U	No	2000	U	No	3990	U	No	3990	U	No	3990	U
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	3950	U	No	5930	U	No	3950	U	No	3950	U	No	1980	U	No	3950	U	No	3950	U	No	3950	U
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	3980	U	No	5980	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	3990	U	No	5990	U	No	3990	U	No	3990	U	No	2000	U	No	3990	U	No	3990	U	No	3990	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	3940	U	No	5920	U	No	3940	U	No	3940	U	No	1970	U	No	3940	U	No	3940	U	No	3940	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	3990	U	No	5990	U	No	3990	U	No	3990	U	No	2000	U	No	3990	U	No	3990	U	No	3990	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	3940	U	No	5920	U	No	3940	U	No	3940	U	No	1970	U	No	3940	U	No	3940	U	No	3940	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	3980	U	No	5980	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	3980	U	No	5960	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	4000	U	No	6000	U	No	4000	U	No	4000	U	No	2000	U	No	4000	U	No	4000	U	No	4000	U
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	3920	U	No	5880	U	No	3920	U	No	3920	U	No	1960	U	No	3920	U	No	3920	U	No	3920	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	1980	U	No	2970	U	No	1980	U	No	1980	U	No	991	U	No	1980	U	No	1980	U	No	1980	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	1980	U	No	2980	U	No	1980	U	No	1980	U	No	991	U	No	1980	U	No	1980	U	No	1980	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	1990	U	No	2990	U	No	1990	U	No	1990	U	No	997	U	No	1990	U	No	1990	U	No	1990	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	1970	U	No	2950	U	No	1970	U	No	1970	U	No	982	U	No	1970	U	No	1970	U	No	1970	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	1970	U	No	2960	U	No	1970	U	No	1970	U	No	986	U	No	1970	U	No	1970	U	No	1970	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	1990	U	No	2990	U	No	1990	U	No	1990	U	No	998	U	No	1990	U	No	1990	U	No	1990	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	1990	U	No	2980	U	No	1990	U	No	1990	U	No	994	U	No	1990	U	No	1990	U	No	1990	U
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	1980	U	No	2970	U	No	1980	U	No	1980	U	No	989	U	No	1980	U	No	1980	U	No	1980	U
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	3980	U	No	5980	U	No	3980	U	No	3980	U	No	1990	U	No	3980	U	No	3980	U	No	3980	U
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	3940	U	No	5920	U	No	3940	U	No	3940	U	No	1970	U	No	3940	U	No	3940	U	No	3940	U
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	4000	U	No	6000	U	No	4000	U	No	4000	U	No	2000	U	No	4000	U	No	4000	U	No	4000	U
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	3940	U	No	5900	U	No	3940	U	No	3940	U	No	1970	U	No	3940	U	No	3940	U	No	3940	U
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	3930	U	No	5890	U	No	3930	U	No	3930	U	No	1960	U	No	3930	U	No	3930	U	No	3930	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	3950	U	No	5930	U	No	3950	U	No	3950	U	No	1980	U	No	3950	U	No	3950	U	No	3950	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	4000	U	No	6000	U	No	4000	U	No	4000	U	No	2000	U	No	4000	U	No	4000	U	No	4000	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	3920	U	No	5880	U	No	3920	U	No	3920	U	No	1960	U	No	3920	U	No	3920	U	No	3920	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	3920	U	No	5880	U	No	3920	U	No	3920	U	No	1960	U	No	3920	U	No	3920	U	No	3920	U
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	3950	U	No	5930	U	No	3950	U	No	3950	U	No	1980	U	No	3950	U	No	3950	U	No	3950	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	1980	U	No	2980	U	No	1980	U	No	1980	U	No	993	U	No	1980	U	No	1980	U	No	1980	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	1980	U	No	2970	U	No	1980	U	No	1980	U	No	990	U	No	1980	U	No	1980	U	No	1980	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	1980	U	No	2970	U	No	1980	U	No	1980	U	No	991	U	No	1980	U	No	1980	U	No	1980	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	1970	U	No	2950	U	No	1970	U	No	1970	U	No	983	U	No	1970	U	No	1970	U	No	1970	U
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	1970	U	No	2950	U	No	1970	U	No	1970	U	No	984	U	No	1970	U	No	1970	U	No	1970	U

BERA Tissue Chemistry Data from Above Dundee Dam

						n-Nitroso-di-n-propylamine			n-Nitrosodiphenylamine			Pentachlorophenol			Phenol		
						µg/kg			µg/kg			µg/kg			µg/kg		
Species	Tissue Type	Event	Reach	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
Channel catfish	Fillet without skin	2012 Upstream Tissue Sampling	10	UPR10-IPFT-Ind003	No	4000	U	No	4000	U	No	12000	U	No	4000	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-IPWB-Ind004	No	1990	U	No	1990	U	No	5960	U	No	1990	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind001	No	1980	U	No	1980	U	No	5910	U	No	1980	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind002	No	1980	U	No	1980	U	No	5950	U	No	1980	U	No
Channel catfish	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-IPWB-Ind003	No	1990	U	No	1990	U	No	5960	U	No	1990	U	No
Northern pike	Carcass	2012 Upstream Tissue Sampling	9	UPRX-ELCT-Comp01	No	3930	U	No	3930	U	No	11800	U	No	3930	U	No
Northern pike	Fillet with skin	2012 Upstream Tissue Sampling	9	UPRX-ELFT-Comp01	No	3940	U	No	3940	U	No	11800	U	No	3940	U	No
Northern pike	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPRX-ELWB-Comp01	No	1970	U	No	1970	U	No	5900	U	No	1970	U	No
Pumpkinseed	Whole body	2012 Upstream Tissue Sampling	10	UPR10-LGWB-Comp01	No	3960	U	No	3960	U	No	11900	UJ	No	3960	U	No
Silver shiner	Whole body	2012 Upstream Tissue Sampling	9	UPR09-NPWB-Comp01	No	3950	U	No	3950	U	No	11800	UJ	No	3950	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp01	No	3920	U	No	3920	U	No	11800	U	No	3920	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp02	No	3980	U	No	3980	U	No	12000	U	No	3980	U	No
Smallmouth bass	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MDCT-Comp03	No	3960	U	No	3960	U	No	11900	U	No	3960	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp01	No	3940	U	No	3940	U	No	11800	U	No	3940	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp02	No	3940	U	No	3940	U	No	11800	U	No	3940	U	No
Smallmouth bass	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MDFT-Comp03	No	3940	U	No	3940	U	No	11800	U	No	3940	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp01	No	1960	U	No	1960	U	No	5900	U	No	1960	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp02	No	1980	U	No	1980	U	No	5960	U	No	1980	U	No
Smallmouth bass	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MDWB-Comp03	No	1980	U	No	1980	U	No	5930	U	No	1980	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp01	No	3940	U	No	3940	U	No	11800	UJ	No	3940	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp02	No	3980	U	No	3980	U	No	12000	UJ	No	3980	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp03	No	3980	U	No	3980	U	No	11900	UJ	No	3980	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp04	No	3930	U	No	3930	U	No	11800	UJ	No	3930	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp05	No	3920	U	No	3920	U	No	11800	UJ	No	3920	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp06	No	3990	U	No	3990	U	No	12000	UJ	No	3990	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	9	UPR09-MACT-Comp07	No	3950	U	No	3950	U	No	11800	UJ	No	3950	U	No
White perch	Carcass	2012 Upstream Tissue Sampling	10	UPR10-MACT-Comp08	No	3980	U	No	3980	U	No	12000	UJ	No	3980	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp01	No	3990	U	No	3990	U	No	12000	UJ	No	3990	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp02	No	3940	U	No	3940	U	No	11800	UJ	No	3940	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp03	No	3990	U	No	3990	U	No	12000	UJ	No	3990	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp04	No	3940	U	No	3940	U	No	11800	UJ	No	3940	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp05	No	3980	U	No	3980	U	No	12000	UJ	No	3980	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp06	No	3980	U	No	3980	U	No	11900	UJ	No	3980	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-MAFT-Comp07	No	4000	U	No	4000	U	No	12000	UJ	No	4000	U	No
White perch	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-MAFT-Comp08	No	3920	U	No	3920	U	No	11800	UJ	No	3920	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp01	No	1980	U	No	1980	U	No	5940	UJ	No	1980	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp02	No	1980	U	No	1980	U	No	5960	UJ	No	1980	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp03	No	1990	U	No	1990	U	No	5970	UJ	No	1990	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp04	No	1970	U	No	1970	U	No	5900	UJ	No	1970	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp05	No	1970	U	No	1970	U	No	5940	UJ	No	1970	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp06	No	1990	U	No	1990	U	No	5980	UJ	No	1990	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-MAWB-Comp07	No	1990	U	No	1990	U	No	5940	UJ	No	1990	U	No
White perch	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-MAWB-Comp08	No	1980	U	No	1980	U	No	5960	UJ	No	1980	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind010	No	3980	U	No	3980	U	No	12000	U	No	3980	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind032	No	3940	U	No	3940	U	No	11800	U	No	3940	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	9	UPR09-WSCT-Ind037	No	4000	U	No	4000	U	No	12000	U	No	4000	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind022	No	3940	U	No	3940	U	No	11800	U	No	3940	U	No
White sucker	Carcass	2012 Upstream Tissue Sampling	10	UPR10-WSCT-Ind028	No	3930	U	No	3930	U	No	11800	U	No	3930	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind010	No	3950	U	No	3950	U	No	11800	U	No	3950	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind032	No	4000	U	No	4000	U	No	12000	U	No	4000	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	9	UPR09-WSFT-Ind037	No	3920	U	No	3920	U	No	11800	U	No	3920	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind022	No	3920	U	No	3920	U	No	11800	U	No	3920	U	No
White sucker	Fillet with skin	2012 Upstream Tissue Sampling	10	UPR10-WSFT-Ind028	No	3950	U	No	3950	U	No	11800	U	No	3950	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind010	No	1980	U	No	1980	U	No	5960	U	No	1980	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind032	No	1980	U	No	1980	U	No	5940	U	No	1980	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	9	UPR09-WSWB-Ind037	No	1980	U	No	1980	U	No	5960	U	No	1980	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind022	No	1970	U	No	1970	U	No	5900	U	No	1970	U	No
White sucker	Whole body (calc)	2012 Upstream Tissue Sampling	10	UPR10-WSWB-Ind028	No	1970	U	No	1970	U	No	5900	U	No	1970	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	C1-Benzanthracene/chrysenes ng/l		
													Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	28.4		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	15.9		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	19.9		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	19		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	35.4		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	47.4		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	48.4		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	26		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	10	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													C1-Dibenzothiophenes			C1-Fluorenes			C1-Phenanthrene/anthracenes			C1-Pyrene/fluoranthenes			C2-Benzanthracene/chrysenes		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	10	U	No	10	U	No	21.1		Yes	36.5		Yes	13.6		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	10	U	No	14.4		Yes	25.9		Yes	25.3		Yes	10	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	10	U	No	10	U	No	21.1		Yes	26		Yes	10	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	10	U	No	19.7		Yes	39.4		Yes	43.9		Yes	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	10	U	No	10	U	No	35		Yes	41.3		Yes	16.9		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	10	U	No	10	U	No	40.3		Yes	56		Yes	23		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	10	U	No	10	U	No	36		Yes	58.1		Yes	25.4		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	10	U	No	10	U	No	17		Yes	29.3		Yes	12.7		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	10	U	No	10	U	No	10	U	No	10	U	No	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	10	U	No	10	U	No	10	U	No	10	U	No	10	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													C2-Dibenzothiophenes			C2-Fluorenes			C2-Naphthalenes			C2-Phenanthrene/anthracenes			C3-Benzanthracene/chrysenes		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	10	U	No	10.8		Yes	15.2		Yes	20.2		Yes	10	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	10	U	No	10.3		Yes	35.2		Yes	18.1		Yes	10	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	10	U	No	10	U	No	23.1		Yes	15.2		Yes	10	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	10	U	No	17.2		Yes	28.9		Yes	31.6		Yes	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	10	U	No	11.2		Yes	21.3		Yes	23.4		Yes	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	10	U	No	11.5		Yes	20.7		Yes	28.8		Yes	13		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	10	U	No	11.4		Yes	12.6		Yes	34.4		Yes	11.5		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	10	U	No	10	U	No	10	U	No	12.9		Yes	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	10	U	No	10	U	No	10	U	No	10	U	No	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	10	U	No	10	U	No	10	U	No	10	U	No	10	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													C3-Dibenzothiophenes			C3-Fluorenes			C3-Naphthalenes			C3-Phenanthrene/anthracenes			C4-Benzanthracene/chrysenes		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	10	U	No	10	U	No	11.3		Yes	12.4		Yes	10	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	10	U	No	10	U	No	21.5		Yes	10	U	No	10	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	10	U	No	10	U	No	15.5		Yes	10	U	No	10	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	10	U	No	10	U	No	25.8		Yes	13.2		Yes	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	10	U	No	10	U	No	15.5		Yes	15		Yes	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	10	U	No	10.4		Yes	14.2		Yes	17.3		Yes	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	10.3		Yes	11.3		Yes	11		Yes	27		Yes	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	10	U	No	10	U	No	10	U	No	10	U	No	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	10	U	No	10	U	No	10	U	No	10	U	No	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	10	U	No	10	U	No	10	U	No	10	U	No	10	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	C4-Dibenzothiophenes ng/l			C4-Naphthalenes ng/l			C4-Phenanthrene/anthracenes ng/l		
													Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	10	U	No	14.8		Yes	10	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	10	U	No	10	U	No	10	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	10	U	No	15.9		Yes	10	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	10	U	No	15.3		Yes	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	10	U	No	16		Yes	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	10	U	No	15.1		Yes	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	10	U	No	14.8		Yes	14.4		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	10	U	No	10	U	No	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	10	U	No	10	U	No	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	10	U	No	10	U	No	10	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Chlorophyll-a mg/m3 Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	7.1	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	5		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	70.6		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	1.39		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	3.2		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	3.15		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	13.3		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	16.9		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	15.8		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	12.4		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	5.24		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	5.68		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	1.15		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	2.52		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	3.4		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	2.3		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	1.15		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	1.54		Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													Monobutyltin			Dibutyltin			Tributyltin			Tetrabutyltin		
													µg/l			µg/l			µg/l			µg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.05	U	No	0.05	U	No	0.05	U	No	0.05	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.05	UJ	No	0.05	UJ	No	0.05	UJ	No	0.05	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.05	U	No	0.05	U	No	0.05	U	No	0.05	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.05	UJ	No	0.05	U	No	0.05	U	No	0.05	UJ	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.05	U	No	0.05	UJ	No	0.05	UJ	No	0.05	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.05	U	No	0.05	U	No	0.05	U	No	0.05	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.05	U	No	0.05	U	No	0.05	U	No	0.05	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.05	U	No	0.05	U	No	0.05	U	No	0.05	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.05	UJ	No	0.05	UJ	No	0.05	UJ	No	0.05	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.05	UJ	No	0.05	UJ	No	0.05	UJ	No	0.05	UJ	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													Total organic carbon			Dissolved organic carbon			Particulate organic carbon			Total dissolved solids			Total suspended solids		
													mg/l			mg/l			mg/l			mg/l			mg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	4.06	J	Yes	4.5	J	Yes	2.1		Yes	229		Yes	23.9		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	2.72		Yes	2.67		Yes	1.3	U	No	287		Yes	2.6	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	4.96		Yes	3.77		Yes	2		Yes	372		Yes	22.9	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	4.21		Yes	5.66		Yes	1.5		Yes	259		Yes	10.5		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	4.17		Yes	3.76		Yes	1.3	U	No	450		Yes	4.2		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	3.55		Yes	3.91	J	Yes	1	J	Yes	419		Yes	3.6		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	3.1		Yes	2.82		Yes	2.4		Yes	265		Yes	19.5		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	3.49		Yes	3.07		Yes	3.1		Yes	272		Yes	27.6		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	3.49		Yes	3.22		Yes	2.9		Yes	278		Yes	22.2		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	3.24		Yes	3.17		Yes	2.2		Yes	250		Yes	16.1		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	3.4		Yes	3.27		Yes	1.9		Yes	244		Yes	6.3		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	3.46		Yes	3.34		Yes	0.8	J	Yes	246		Yes	4.2		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	6.51		Yes	4.8		Yes	2.1		Yes	254		Yes	12.5		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS				4.44		Yes	2.8		Yes						
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	5.98		Yes	5.19		Yes	4.1		Yes	143		Yes	59		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	5.96		Yes	5.45		Yes	3		Yes	178		Yes	30.6		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	5.91		Yes	7.19		Yes	1.3	U	No	172		Yes	10.4		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	6.03		Yes	7.12		Yes	1.3	U	No	166		Yes	9		Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													Aluminum (dissolved)			Aluminum (total)			Antimony (dissolved)			Antimony (total)		
													µg/l			µg/l			µg/l			µg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CE05-T175	17.6	594533.91	747560.41	Surface (3 ft below surface)	15-Aug-11	Tide independent	4.44	4.44	ft	11A-CE05-T175-AS												
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	9.6		Yes	400		Yes	0.26	J	Yes	0.31	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS												
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	20	U	No	94.5		Yes	0.165		Yes	0.211		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS												
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	20	U	No	80.9		Yes	0.22		Yes	0.247		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	13.1	J	Yes	78		Yes	0.34	J	Yes	0.336	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	24.2		Yes	276		Yes	0.155		Yes	0.264		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	37.4		Yes	373		Yes	0.18		Yes	0.267		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	169		Yes	398		Yes	0.214		Yes	0.261		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	15.9		Yes	248		Yes	0.139		Yes	0.169		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	19.2		Yes	142		Yes	0.14		Yes	0.158		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	18.8		Yes	118		Yes	0.139		Yes	0.147		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS												
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS												
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS												
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS												
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS												
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS												

BERA Surface Water Chemistry Data from Above Dundee Dam

													Arsenic (dissolved)			Arsenic (total)			Barium (dissolved)			Barium (total)			Beryllium (dissolved)		
													µg/l			µg/l			µg/l			µg/l			µg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CE05-T175	17.6	594533.91	747560.41	Surface (3 ft below surface)	15-Aug-11	Tide independent	4.44	4.44	ft	11A-CE05-T175-AS															
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.93	J	Yes	1.13	J	Yes	19.7	J	Yes	25	J	Yes	0.004	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS															
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.6		Yes	0.6		Yes	29.5		Yes	32.6		Yes	0.02	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS															
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.4	J	Yes	0.5		Yes	27.1		Yes	30.9		Yes	0.02	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.91		Yes	0.91		Yes	29.2		Yes	30.1		Yes	0.02	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.5	U	No	0.7		Yes	23.1	J	Yes	27.7	J	Yes	0.02	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.6		Yes	0.7		Yes	21.1	J	Yes	26.8	J	Yes	0.02	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.5		Yes	0.7		Yes	21.4		Yes	23.9		Yes	0.02	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.3	J	Yes	0.5	J	Yes	19.9		Yes	23.1		Yes	0.02	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.5	U	No	0.5	U	No	20.3		Yes	21.6		Yes	0.02	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.5	U	No	0.5	U	No	20.1		Yes	21.3		Yes	0.02	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS															

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Beryllium (total) µg/l		
													Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CE05-T175	17.6	594533.91	747560.41	Surface (3 ft below surface)	15-Aug-11	Tide independent	4.44	4.44	ft	11A-CE05-T175-AS			
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.025		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS			
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.02	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS			
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.02	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.02	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.01	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.015	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.02	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.02	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.02	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.02	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS			
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS			
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS			
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS			
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS			
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS			

BERA Surface Water Chemistry Data from Above Dundee Dam

													Cadmium (dissolved)			Cadmium (total)			Calcium (dissolved)			Calcium (total)		
													µg/l			µg/l			µg/l			µg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CE05-T175	17.6	594533.91	747560.41	Surface (3 ft below surface)	15-Aug-11	Tide independent	4.44	4.44	ft	11A-CE05-T175-AS												
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.016	J	Yes	0.049	J	Yes	23100		Yes	24100		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.026	J	Yes	0.029	J	Yes						
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.02	J	Yes	0.044	J	Yes	38100		Yes	38600		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.01	J	Yes	0.039	J	Yes						
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.024	J	Yes	0.041	J	Yes	44100		Yes	44500		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.019	J	Yes	0.028	J	Yes	37700		Yes	37500		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.02	J	Yes	0.055	J	Yes	24800		Yes	24900		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.02	UJ	No	0.143	J	Yes	23400		Yes	23500		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.033	J	Yes	0.053	J	Yes	22700		Yes	22900		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.02	J	Yes	0.039	J	Yes	23900		Yes	23500		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.024	J	Yes	0.03	J	Yes	22300		Yes	22300		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.02	UJ	No	0.027	J	Yes	22400		Yes	22400		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.027	J	Yes	0.05	J	Yes						
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS												
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.02	UJ	No	0.099	J	Yes						
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.02	UJ	No	0.054	J	Yes						
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.02	UJ	No	0.03	J	Yes						
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.02	UJ	No	0.038	J	Yes						

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Chromium (dissolved) µg/l			Chromium (total) µg/l			Cobalt (dissolved) µg/l			Cobalt (total) µg/l			Copper (dissolved) µg/l		
													Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CE05-T175	17.6	594533.91	747560.41	Surface (3 ft below surface)	15-Aug-11	Tide independent	4.44	4.44	ft	11A-CE05-T175-AS															
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.48	J	Yes	1.24	J	Yes	0.114	J	Yes	0.406	J	Yes	3.25	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS													2.17	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.35	J	Yes	0.6	J	Yes	0.271	J	Yes	0.335	J	Yes	2.07	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS													2.6	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.36	J	Yes	0.53	J	Yes	0.173	J	Yes	0.233	J	Yes	2.43	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.39	J	Yes	0.45	J	Yes	0.217	J	Yes	0.266	J	Yes	2.6	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	1.41	J	Yes	1.14	J	Yes	0.189	J	Yes	0.362	J	Yes	2.28	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.54	J	Yes	1.43	J	Yes	0.186	J	Yes	0.438	J	Yes	2.52	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.88	J	Yes	1.26	J	Yes	0.264	J	Yes	0.399	J	Yes	3.36	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.36	J	Yes	0.88	J	Yes	0.167	J	Yes	0.337	J	Yes	1.92	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.26	J	Yes	1.51	J	Yes	0.148	J	Yes	0.214	J	Yes	1.83	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.31	J	Yes	0.48	J	Yes	0.148	J	Yes	0.193	J	Yes	1.78	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS													2.92	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS													3.2	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS													2.69	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS													2.46	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS													2.4	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Copper (total) ug/l Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CE05-T175	17.6	594533.91	747560.41	Surface (3 ft below surface)	15-Aug-11	Tide independent	4.44	4.44	ft	11A-CE05-T175-AS			
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	5.42	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	2.23	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	2.87	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	4.2	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	3.35		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	3.31	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	4.52	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	5.18	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	4.35	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	3.27	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	2.26	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	2.14	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	4.31	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS			
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	8.05	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	5.33	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	3.75	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	3.35	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Iron (dissolved) µg/l			Iron (total) µg/l			Lead (dissolved) µg/l			Lead (total) µg/l		
													Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CE05-T175	17.6	594533.91	747560.41	Surface (3 ft below surface)	15-Aug-11	Tide independent	4.44	4.44	ft	11A-CE05-T175-AS												
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	34		Yes	828		Yes	0.099	J	Yes	4.025	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS							0.234		Yes	0.367		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	28.8		Yes	305		Yes	0.111		Yes	1.59		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS							0.567		Yes	3.6		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	38.5		Yes	317		Yes	0.153	J	Yes	1.35		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	31.6		Yes	189		Yes	0.22	J	Yes	1.75	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	119		Yes	696		Yes	0.401		Yes	4.08		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	124		Yes	914		Yes	0.407		Yes	4.17		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	412		Yes	885		Yes	1.35		Yes	3.12		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	94.9		Yes	651		Yes	0.151		Yes	2.06		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	96.2		Yes	347		Yes	0.155		Yes	0.751		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	96.2		Yes	321		Yes	0.16		Yes	0.666		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS							1.23		Yes	3.7		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS												
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS							0.742		Yes	8.14		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS							0.822		Yes	5.46		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS							0.593		Yes	2.44		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS							0.547		Yes	1.96		Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													Magnesium (dissolved)			Magnesium (total)			Manganese (dissolved)			Manganese (total)			Mercury (dissolved)		
													µg/l			µg/l			µg/l			µg/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CE05-T175	17.6	594533.91	747560.41	Surface (3 ft below surface)	15-Aug-11	Tide independent	4.44	4.44	ft	11A-CE05-T175-AS													2.47		Yes
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	6900		Yes	7030		Yes	25.1		Yes	104		Yes			
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS													1.85		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	12000		Yes	12200		Yes	23.3	J	Yes	128	J	Yes	0.6	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS													2.79		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	14100		Yes	14700		Yes	42.2	J	Yes	53.7		Yes	0.89		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	12400		Yes	12300		Yes	39.9		Yes	65.9		Yes	1		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	7200		Yes	7240		Yes	61.1	J	Yes	86.2	J	Yes	1.93		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	6730		Yes	6820		Yes	60.8	J	Yes	104	J	Yes	2.11		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	6590		Yes	6670		Yes	73.7	J	Yes	94	J	Yes	2.53		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	6860		Yes	6770		Yes	59.9	J	Yes	87.5	J	Yes	1.97		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	6810		Yes	6820		Yes	43.1	J	Yes	53.7	J	Yes	1.73		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	6830		Yes	6820		Yes	43	J	Yes	51.4	J	Yes	1.68		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS													3.98		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS													3.11		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS													3.44		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS													7.66		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS													4.61		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS													4.4		Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Mercury (total) ng/l Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CE05-T175	17.6	594533.91	747560.41	Surface (3 ft below surface)	15-Aug-11	Tide independent	4.44	4.44	ft	11A-CE05-T175-AS	18.4		Yes
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS			
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	2.86		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	10.3		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	18.1		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	3.86		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	8.65		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	11.8		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	15.5		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	11.1		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	10.5		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	4.7		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	4.27		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	13.4		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	16.8		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	36		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	36.5		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	15.9		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	14.6		Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Methyl mercury (dissolved) ng/l			Methyl mercury (total) ng/l			Nickel (dissolved) µg/l			Nickel (total) µg/l			Potassium (dissolved) µg/l		
													Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CE05-T175	17.6	594533.91	747560.41	Surface (3 ft below surface)	15-Aug-11	Tide independent	4.44	4.44	ft	11A-CE05-T175-AS	0.049	J	Yes	0.1		Yes									
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS							1.11	J	Yes	1.58	J	Yes	2570		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS															
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.043	J	Yes	0.182		Yes	1.29	J	Yes	1.46	J	Yes	3300		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS															
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.033	J	Yes	0.052		Yes	1.32	J	Yes	1.49	J	Yes	4150		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.055		Yes	0.113		Yes	1.29	J	Yes	1.28	J	Yes	4470		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.037	J	Yes	0.108		Yes	1.39	J	Yes	1.31	J	Yes	1900		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.028	J	Yes	0.12		Yes	0.93	J	Yes	1.46	J	Yes	1780		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.046	J	Yes	0.11		Yes	1.05	J	Yes	1.27	J	Yes	1770		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.034	J	Yes	0.083		Yes	0.86	J	Yes	1.11	J	Yes	1710		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.031	J	Yes	0.061		Yes	0.93	J	Yes	1.57	J	Yes	1710		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.034	J	Yes	0.065		Yes	0.9	J	Yes	1.03	J	Yes	1780		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS															

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Potassium (total) µg/l			Selenium (dissolved) µg/l		
													Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CE05-T175	17.6	594533.91	747560.41	Surface (3 ft below surface)	15-Aug-11	Tide independent	4.44	4.44	ft	11A-CE05-T175-AS						
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	2650		Yes	0.4	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS						
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	3440		Yes	0.5	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS						
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	4370		Yes	1	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	4430		Yes	0.3	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	1960		Yes	1	UJ	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	1850		Yes	1	UJ	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	1830		Yes	0.3	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	1750		Yes	0.3	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	1690		Yes	0.6	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	1700		Yes	1	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS						
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS						
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS						
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS						
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS						
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS						

BERA Surface Water Chemistry Data from Above Dundee Dam

													Selenium (total)			Silver (dissolved)			Silver (total)			Sodium (dissolved)			Sodium (total)		
													µg/l			µg/l			µg/l			µg/l			µg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CE05-T175	17.6	594533.91	747560.41	Surface (3 ft below surface)	15-Aug-11	Tide independent	4.44	4.44	ft	11A-CE05-T175-AS															
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.7	J	Yes	0.006	J	Yes	0.033	J	Yes	38300		Yes	37700		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS															
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.4	J	Yes	0.054	J	Yes	0.101	J	Yes	55300		Yes	55900		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS															
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.3	J	Yes	0.02	U	No	0.02	U	No	87700		Yes	91800		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.2	J	Yes	0.02	U	No	0.02	UJ	No	62100		Yes	61300		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	1	UJ	No	0.02	U	No	0.02	U	No	67900		Yes	68100		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	1	UJ	No	0.02	U	No	0.025		Yes	63900		Yes	65500		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	1	U	No	0.02	U	No	0.031		Yes	63500		Yes	63800		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	1	U	No	0.02	U	No	0.021		Yes	57900		Yes	57200		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	1	U	No	0.02	U	No	0.02	U	No	54700		Yes	54200		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.4	J	Yes	0.02	U	No	0.02	U	No	55600		Yes	54700		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS															

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Thallium (dissolved) µg/l			Thallium (total) µg/l			Titanium (dissolved) µg/l			Titanium (total) µg/l			Vanadium (dissolved) µg/l		
													Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CE05-T175	17.6	594533.91	747560.41	Surface (3 ft below surface)	15-Aug-11	Tide independent	4.44	4.44	ft	11A-CE05-T175-AS															
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.02	U	No	0.02	U	No	1	U	No	14.5		Yes	1.76		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS															
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.02	U	No	0.02	U	No	1.2	J	Yes	4.3	J	Yes	0.83		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS															
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.02	U	No	0.02	U	No	30	U	No	30	U	No	0.79		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.02	U	No	0.02	U	No	30	U	No	30	U	No	2.56		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.02	U	No	0.02	U	No	0.8	J	Yes	11.2		Yes	0.48		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.02	U	No	0.02	U	No	1.4		Yes	16.3		Yes	0.63		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.02	U	No	0.02	U	No	7.7		Yes	17.1		Yes	1.02		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.02	U	No	0.02	U	No	1	U	No	9.8		Yes	0.48		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.02	U	No	0.02	U	No	0.6	J	Yes	4.8		Yes	0.39		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.02	U	No	0.02	U	No	0.8	J	Yes	3.9		Yes	0.4		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS															
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS															

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Vanadium (total) µg/l			Zinc (dissolved) µg/l			Zinc (total) µg/l		
													Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CE05-T175	17.6	594533.91	747560.41	Surface (3 ft below surface)	15-Aug-11	Tide independent	4.44	4.44	ft	11A-CE05-T175-AS									
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	2.65		Yes	3.38	J	Yes	12.2	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS									
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	1.09		Yes	4.5	J	Yes	7.6	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS									
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	1.05		Yes	8.1		Yes	11.4	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	2.72		Yes	3.4	J	Yes	6.43	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	1.33		Yes	7.7	J	Yes	16.7	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	1.68		Yes	7.2	J	Yes	18	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	1.57		Yes	9.8	J	Yes	14.4	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	1.16		Yes	5.4	J	Yes	10.9	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.7		Yes	5.3	J	Yes	6.7	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.65		Yes	4.8	J	Yes	6.3	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS									
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS									
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS									
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS									
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS									
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS									

BERA Surface Water Chemistry Data from Above Dundee Dam

													2,4'-DDD			2,4'-DDE			2,4'-DDT		
													ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.151	J	Yes	0.0554	U	No	0.078	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0316	U	No	0.0508	U	No	0.0431	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.39	U	No	0.39	U	No	0.39	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.0259	U	No	0.039	U	No	0.0348	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.13	J	Yes	0.39	U	No	0.15	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.18	J	Yes	0.4	U	No	0.21	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.14	J	Yes	0.4	U	No	0.13	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.083	J	Yes	0.4	U	No	0.056	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.4	U	No	0.4	U	No	0.4	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.4	U	No	0.4	U	No	0.4	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													4,4'-DDD			4,4'-DDE			4,4'-DDT			Aldrin			alpha-BHC		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.455		Yes	0.591		Yes	0.362	J	Yes	0.0136	U	No	0.0408	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0373	U	No	0.0843	U	No	0.0573	U	No	0.00616	U	No	0.015	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.12	U	No	0.16	J	Yes	2	U	No	0.39	U	No	0.026	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.309	J	Yes	0.0483	U	No	0.148	J	Yes	0.0204	J	Yes	0.0277	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.39		Yes	0.58		Yes	0.61		Yes	0.39	U	No	0.043	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.42		Yes	0.83		Yes	0.87		Yes	0.034	J	Yes	0.046	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.35	J	Yes	0.69		Yes	0.65		Yes	0.022	J	Yes	0.039	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.18	J	Yes	0.38	J	Yes	0.25	J	Yes	0.018	J	Yes	0.027	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.1	Z	Yes	0.4	U	No	0.4	U	No	0.4	U	No	0.036	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.11	J	Yes	0.4	U	No	0.11	J	Yes	0.4	U	No	0.024	Z	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	alpha-Chlordane ng/l Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	1.15		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.31	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.44		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.697		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	1.6		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	2.2		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	1.7		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.63		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.3	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.28	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													beta-BHC			cis-Nonachlor			delta-BHC			Dieldrin			Endosulfan I		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.0459	J	Yes	0.321	J	Yes	0.0306	U	No	1.26		Yes	0.0637	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.041	Z	Yes	0.105	Z	Yes	0.0142	U	No	0.721		Yes	0.0325	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.071	U	No	0.39	U	No	0.015	U	No	0.63		Yes	0.39	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.0887	J	Yes	0.12	J	Yes	0.0141	U	No	1.02		Yes	0.0248	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.028	J	Yes	0.41		Yes	0.39	U	No	1.1		Yes	0.39	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.031	J	Yes	0.39	J	Yes	0.4	U	No	1.2		Yes	0.4	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.032	J	Yes	0.35	J	Yes	0.4	U	No	1		Yes	0.4	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.021	J	Yes	0.15	J	Yes	0.4	U	No	0.55		Yes	0.4	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.028	J	Yes	0.082	J	Yes	0.4	U	No	0.44		Yes	0.4	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.019	Z	Yes	0.09	J	Yes	0.4	U	No	0.43		Yes	0.4	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													Endosulfan II			Endosulfan sulfate			Endrin			Endrin aldehyde			Endrin ketone		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.143	J	Yes	0.198	J	Yes	0.0332	U	No	0.0459	U	No	0.0794	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0542	U	No	0.0787	Z	Yes	0.0196	Z	Yes	0.032	U	No	0.151	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.39	U	No	0.074	U	No	0.39	U	No	0.39	U	No	0.39	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.0662	U	No	0.163	U	No	0.0245	U	No	0.0259	U	No	0.0893	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.14	J	Yes	0.075	J	Yes	0.39	U	No	0.39	U	No	0.39	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.21	J	Yes	0.079	U	No	0.4	U	No	0.4	U	No	0.089	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.4	U	No	0.055	J	Yes	0.4	U	No	0.4	U	No	0.058	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.4	U	No	0.048	J	Yes	0.4	U	No	0.4	U	No	0.4	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.4	U	No	0.052	J	Yes	0.4	U	No	0.4	U	No	0.4	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.4	U	No	0.056	J	Yes	0.4	U	No	0.4	U	No	0.045	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	gamma-BHC (Lindane) ng/l Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.0921	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.135	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.16	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.246	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.077	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.068	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.053	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.045	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.2	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.18	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													gamma-Chlordane			Heptachlor			Heptachlor epoxide			Hexachlorobenzene			Methoxychlor		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.777		Yes	0.0351	J	Yes	0.918		Yes	0.0578	U	No	0.0225	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.221	J	Yes	0.00985	J	Yes	0.51		Yes	0.0277	UJ	No	0.0103	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.34	J	Yes	0.015	U	No	0.39		Yes	0.18	U	No	0.39	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.471		Yes	0.008	U	No	0.629		Yes	0.0546	U	No	0.00932	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	1.3		Yes	0.071	J	Yes	0.73		Yes	0.081	U	No	0.13	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	1.8		Yes	0.099	J	Yes	0.91		Yes	0.14	U	No	0.088	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	1.3		Yes	0.075	J	Yes	0.88		Yes	0.086	U	No	0.037	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.49		Yes	0.033	J	Yes	0.43		Yes	0.053	U	No	0.4	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.22	J	Yes	0.023	Z	Yes	0.31	J	Yes	0.12	U	No	0.4	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.2	J	Yes	0.012	Z	Yes	0.31	J	Yes	0.1	U	No	0.4	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Oxychlordane ng/l Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.0901	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0278	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.047	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.013	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.14	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.15	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.15	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.049	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.031	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.035	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Total 2,4' and 4,4' DDD ng/l			Total 2,4' and 4,4' DDD (ND=0.5DL) ng/l			Total 2,4' and 4,4' DDD (ND=DL) ng/l			Total 2,4' and 4,4' DDE ng/l			Total 2,4' and 4,4' DDE (ND=0.5DL) ng/l		
													Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.605	J	Yes	0.605	J	Yes	0.605	J	Yes	0.591		Yes	0.619		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0373	U	No	0.0373	U	No	0.0373	U	No	0.0843	U	No	0.0843	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.39	U	No	0.39	U	No	0.39	U	No	0.16	J	Yes	0.355	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.309	J	Yes	0.322	J	Yes	0.335	J	Yes	0.0483	U	No	0.0483	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.52	J	Yes	0.52	J	Yes	0.52	J	Yes	0.58		Yes	0.775		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.6	J	Yes	0.6	J	Yes	0.6	J	Yes	0.83		Yes	1.03		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.49	J	Yes	0.49	J	Yes	0.49	J	Yes	0.69		Yes	0.89		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.263	J	Yes	0.263	J	Yes	0.263	J	Yes	0.38	J	Yes	0.58	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.1		Yes	0.3		Yes	0.5		Yes	0.4	U	No	0.4	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.11	J	Yes	0.31	J	Yes	0.51	J	Yes	0.4	U	No	0.4	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													Total 2,4' and 4,4' DDE (ND=DL)			Total 2,4' and 4,4' DDT			Total 2,4' and 4,4' DDT (ND=0.5DL)			Total 2,4' and 4,4' DDT (ND=DL)			Total 4,4' DDT		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.646		Yes	0.401	J	Yes	0.412	J	Yes	0.423	J	Yes	1.41	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0843	U	No	0.0573	U	No	0.0573	U	No	0.0573	U	No	0.0843	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.55	J	Yes	2	U	No	2	U	No	2	U	No	0.16	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.0483	U	No	0.148	J	Yes	0.165	J	Yes	0.183	J	Yes	0.457	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.97		Yes	0.76	J	Yes	0.76	J	Yes	0.76	J	Yes	1.58		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	1.23		Yes	1.08	J	Yes	1.08	J	Yes	1.08	J	Yes	2.12		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	1.09		Yes	0.78	J	Yes	0.78	J	Yes	0.78	J	Yes	1.69	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.78	J	Yes	0.306	J	Yes	0.306	J	Yes	0.306	J	Yes	0.81	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.4	U	No	0.4	U	No	0.4	U	No	0.4	U	No	0.1		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.4	U	No	0.11	J	Yes	0.31	J	Yes	0.51	J	Yes	0.22	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Total 4,4' DDT (ND=0.5DL) ng/l			Total 4,4' DDT (ND=DL) ng/l			Total Chlordane ng/l			Total Chlordane (ND=0.5DL) ng/l			Total Chlordane (ND=DL) ng/l		
													Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	1.41	J	Yes	1.41	J	Yes	2.96	J	Yes	2.96	J	Yes	2.96	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0843	U	No	0.0843	U	No	0.825	J	Yes	0.825	J	Yes	0.825	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	1.22	J	Yes	2.28	J	Yes	1.11	J	Yes	1.3	J	Yes	1.5	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.481	J	Yes	0.505	J	Yes	1.59	J	Yes	1.6	J	Yes	1.6	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	1.58		Yes	1.58		Yes	4.35	J	Yes	4.35	J	Yes	4.35	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	2.12		Yes	2.12		Yes	5.84	J	Yes	5.84	J	Yes	5.84	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	1.69	J	Yes	1.69	J	Yes	4.42	J	Yes	4.42	J	Yes	4.42	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.81	J	Yes	0.81	J	Yes	1.68	J	Yes	1.68	J	Yes	1.68	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.5		Yes	0.9		Yes	0.803	J	Yes	0.803	J	Yes	0.803	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.42	J	Yes	0.62	J	Yes	0.765	J	Yes	0.765	J	Yes	0.765	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													Total DDx			Total DDx (ND=0.5DL)			Total DDx (ND=DL)			Total Endosulfan			Total Endosulfan (ND=0.5DL)		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	1.6	J	Yes	1.64	J	Yes	1.68	J	Yes	0.27	J	Yes	0.326	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0843	U	No	0.0843	U	No	0.0843	U	No	0.0787		Yes	0.122		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.16	J	Yes	1.81	J	Yes	3.45	J	Yes	0.39	U	No	0.39	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.457	J	Yes	0.531	J	Yes	0.605	J	Yes	0.163	U	No	0.163	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	1.86	J	Yes	2.06	J	Yes	2.25	J	Yes	0.215	J	Yes	0.41	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	2.51	J	Yes	2.71	J	Yes	2.91	J	Yes	0.21	J	Yes	0.45	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	1.96	J	Yes	2.16	J	Yes	2.36	J	Yes	0.055	J	Yes	0.455	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.949	J	Yes	1.15	J	Yes	1.35	J	Yes	0.048	J	Yes	0.448	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.1		Yes	1.1		Yes	2.1		Yes	0.052	J	Yes	0.452	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.22	J	Yes	1.02	J	Yes	1.82	J	Yes	0.056	J	Yes	0.456	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Total Endosulfan (ND=DL) ng/l			trans-Nonachlor ng/l		
													Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.382	J	Yes	0.625		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.165		Yes	0.161	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.39	U	No	0.28	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.163	U	No	0.303	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.605	J	Yes	0.9		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.689	J	Yes	1.3		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.855	J	Yes	0.92		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.848	J	Yes	0.36	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.852	J	Yes	0.17	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.856	J	Yes	0.16	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	1-Methylnaphthalene ng/l		
													Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	11.2		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	31.4		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	9.71	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	13.5		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	13.6		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	12.5		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	9.52	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	7.45	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	5.98	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	5.76	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													1-Methylphenanthrene			2,3,5-Trimethylnaphthalene			2,6-Dimethylnaphthalene			2-Methylnaphthalene			Acenaphthene		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	7.86	J	Yes	2.38	J	Yes	5.11	J	Yes	11.3	J	Yes	12.2		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	10.1		Yes	5.05	J	Yes	11.9		Yes	19.6	J	Yes	33.5		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	6.17	J	Yes	3.69	J	Yes	5.93	J	Yes	10.7	J	Yes	9.42	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	16.1		Yes	6.76	J	Yes	8.88	J	Yes	12.3	J	Yes	28.2		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	10.5		Yes	5.39	J	Yes	8.55	J	Yes	15.2	J	Yes	12.5		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	12.3		Yes	4.57	J	Yes	7.99	J	Yes	13.2	J	Yes	13.3		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	9.86	J	Yes	3.56	J	Yes	4.77	J	Yes	11.4	J	Yes	10.1		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	5.2	J	Yes	2.31	J	Yes	2.81	J	Yes	20	U	No	7.53	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	1.53	J	Yes	10	U	No	10	U	No	20	U	No	5.48	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	1.21	J	Yes	10	U	No	10	U	No	20	U	No	5.53	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Acenaphthylene ng/l		
													Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	2.19	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	2.81	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	2.37	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	3.08	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	3.31	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	3.43	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	2.88	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	2.02	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	10	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													Anthracene			Benzo(a)anthracene			Benzo(a)pyrene			Benzo(b)fluoranthene			Benzo(e)pyrene		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	5.69	J	Yes	22.2	J	Yes	35.4		Yes	52.7		Yes	30.4		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	8.87	J	Yes	13.8		Yes	18.6		Yes	25.9		Yes	14.7		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	5.64	J	Yes	18.7		Yes	24.7		Yes	45		Yes	22.5		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	10.8		Yes	16.7		Yes	16.7		Yes	25.2		Yes	14.9		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	11		Yes	40.6		Yes	64		Yes	114		Yes	57.7		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	12.8		Yes	50.6		Yes	82.8		Yes	136		Yes	76.3		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	8.3	J	Yes	41.2		Yes	69.7		Yes	136		Yes	68.3		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	4.83	J	Yes	29.2		Yes	45.3		Yes	85.3		Yes	42.8		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	1.65	J	Yes	5.21	J	Yes	7.09	J	Yes	11.2		Yes	6.45	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	1.46	J	Yes	3.11	J	Yes	4.12	J	Yes	6.21	J	Yes	4.19	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Benzo(g,h,i)perylene ng/l		
													Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	38.3		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	13.7		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	28.2		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	13.7		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	61.3		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	78.9		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	68.1		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	42.8		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	6.46	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	3.56	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													Benzo(k)fluoranthene			Chrysene			Dibenzo(a,h)anthracene			Dibenzothiophene			Fluoranthene		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	26.1		Yes	57.4		Yes	8.39	J	Yes	3.32	J	Yes	84.3		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	9.91	J	Yes	25.1		Yes	3.28	J	Yes	4.22	J	Yes	38		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	15.8		Yes	43.5		Yes	5.38	J	Yes	3.02	J	Yes	76.1		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	9.2	J	Yes	33		Yes	2.83	J	Yes	5.06	J	Yes	65.9		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	34.3		Yes	95		Yes	11		Yes	7.18	J	Yes	191		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	51.5		Yes	125		Yes	15		Yes	8.69	J	Yes	230		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	37.9		Yes	115		Yes	11.7		Yes	5.59	J	Yes	199		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	24.7		Yes	67		Yes	7.98	J	Yes	2.83	J	Yes	110		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	3.67	J	Yes	10.7		Yes	1	J	Yes	0.902	J	Yes	20.6		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	2.65	J	Yes	7.34	J	Yes	0.903	J	Yes	0.967	J	Yes	15.1		Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Fluorene ng/l Value	Fluorene ng/l Qual	Fluorene ng/l Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	10	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	15		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	7.48	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	19.8		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	12.9		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	13.4		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	10.4		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	10	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	10	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													Indeno(1,2,3-cd)pyrene			Naphthalene			Perylene			Phenanthrene			Pyrene		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	30.8		Yes	22.8	J	Yes	11.3	U	No	42.9		Yes	83.6		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	12.1		Yes	28.8	J	Yes	5.62	J	Yes	39.7		Yes	45.6		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	22.5		Yes	17.8	J	Yes	7.55	J	Yes	44.7		Yes	70.5		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	11.7		Yes	50	U	No	4.52	J	Yes	52.6		Yes	81.7		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	49.1		Yes	22.9	J	Yes	16.9		Yes	129		Yes	148		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	60.8		Yes	23.4	J	Yes	18		Yes	153		Yes	174		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	55		Yes	20.1	J	Yes	18		Yes	115		Yes	156		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	35.5		Yes	50	U	No	12.1		Yes	54.7		Yes	86.2		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	4.5	J	Yes	50	U	No	2.04	J	Yes	14.6	J	Yes	16.9		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	3.15	J	Yes	50	U	No	1.23	J	Yes	12.5	J	Yes	12.3		Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Total benzofluoranthenes ng/l			Total benzofluoranthenes (ND=0.5DL) ng/l			Total benzofluoranthenes (ND=DL) ng/l			Total carcinogenic PAHs ng/l			Total carcinogenic PAHs (ND=0.5DL) ng/l		
													Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	78.8		Yes	78.8		Yes	78.8		Yes	54.7	J	Yes	54.7	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	35.8	J	Yes	35.8	J	Yes	35.8	J	Yes	27.2	J	Yes	27.2	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	60.8		Yes	60.8		Yes	60.8		Yes	38.9	J	Yes	38.9	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	34.4	J	Yes	34.4	J	Yes	34.4	J	Yes	25	J	Yes	25	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	148		Yes	148		Yes	148		Yes	95.8		Yes	95.8		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	188		Yes	188		Yes	188		Yes	123		Yes	123		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	174		Yes	174		Yes	174		Yes	105		Yes	105		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	110		Yes	110		Yes	110		Yes	68.6	J	Yes	68.6	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	14.9	J	Yes	14.9	J	Yes	14.9	J	Yes	10.2	J	Yes	10.2	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	8.86	J	Yes	8.86	J	Yes	8.86	J	Yes	6.3	J	Yes	6.3	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													Total carcinogenic PAHs (ND=DL)			Total HPAHs			Total HPAHs (ND=0.5DL)			Total HPAHs (ND=DL)			Total LPAHs		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	54.7	J	Yes	439	J	Yes	439	J	Yes	439	J	Yes	85.8	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	27.2	J	Yes	206	J	Yes	206	J	Yes	206	J	Yes	129	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	38.9	J	Yes	350	J	Yes	350	J	Yes	350	J	Yes	87.4	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	25	J	Yes	277	J	Yes	277	J	Yes	277	J	Yes	114	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	95.8		Yes	808		Yes	808		Yes	808		Yes	192	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	123		Yes	1000		Yes	1000		Yes	1000		Yes	219	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	105		Yes	890		Yes	890		Yes	890		Yes	167	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	68.6	J	Yes	534	J	Yes	534	J	Yes	534	J	Yes	69.1	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	10.2	J	Yes	87.3	J	Yes	87.3	J	Yes	87.3	J	Yes	21.7	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	6.3	J	Yes	58.4	J	Yes	58.4	J	Yes	58.4	J	Yes	19.5	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													Total LPAHs (ND=0.5DL)			Total LPAHs (ND=DL)			Total PAHs			Total PAHs (ND=0.5DL)			Total PAHs (ND=DL)		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	90.8	J	Yes	95.8	J	Yes	525	J	Yes	530	J	Yes	535	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	129	J	Yes	129	J	Yes	335	J	Yes	335	J	Yes	335	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	87.4	J	Yes	87.4	J	Yes	438	J	Yes	438	J	Yes	438	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	139	J	Yes	164	J	Yes	391	J	Yes	416	J	Yes	441	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	192	J	Yes	192	J	Yes	1000	J	Yes	1000	J	Yes	1000	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	219	J	Yes	219	J	Yes	1220	J	Yes	1220	J	Yes	1220	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	167	J	Yes	167	J	Yes	1060	J	Yes	1060	J	Yes	1060	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	99.1	J	Yes	129	J	Yes	603	J	Yes	633	J	Yes	663	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	56.7	J	Yes	91.7	J	Yes	109	J	Yes	144	J	Yes	179	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	54.5	J	Yes	89.5	J	Yes	77.9	J	Yes	113	J	Yes	148	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-1			PCB-2			PCB-3		
													ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00571	U	No	0.00116	U	No	0.00333	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.0102	J	Yes	0.00154	U	No	0.0022	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0101	J	Yes	0.00039	U	No	0.00045	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.0135	J	Yes	0.00472	U	No	0.00478	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00498	U	No	0.00338	U	No	0.00357	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00782	U	No	0.000194	U	No	0.00335	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.0075	J	Yes	0.000387	U	No	0.000425	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00821	J	Yes	0.00137	Z	Yes	0.00191	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00872	Z	Yes	0.000381	U	No	0.000413	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00681	J	Yes	0.000358	U	No	0.00189	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000247	U	No	0.000289	U	No	0.000343	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00592	J	Yes	0.000315	U	No	0.000368	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.0134	J	Yes	0.000494	U	No	0.00215	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.0118	J	Yes	0.000307	U	No	0.0039	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.0401		Yes	0.00258	J	Yes	0.00872	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.0118	J	Yes	0.0015	U	No	0.00233	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00788	J	Yes	0.000318	U	No	0.00215	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.00988	J	Yes	0.0019	J	Yes	0.00321	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-4			PCB-5			PCB-6			PCB-7			PCB-8		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.105		Yes	0.00213	U	No	0.0143	J	Yes	0.00292	J	Yes	0.0382	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.05	Z	Yes	0.00133	U	No	0.00588	Z	Yes	0.00221	U	No	0.016	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0688	Z	Yes	0.00284	U	No	0.0154	Z	Yes	0.00274	U	No	0.0429	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.099		Yes	0.00152	U	No	0.0199	J	Yes	0.0107	U	No	0.0517	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.0809		Yes	0.000743	U	No	0.00641	U	No	0.00274	U	No	0.0155	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.131		Yes	0.00176	U	No	0.0246	J	Yes	0.00328	Z	Yes	0.0631	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.0641		Yes	0.00132	U	No	0.00927	U	No	0.00196	U	No	0.0371	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.0447	J	Yes	0.00104	U	No	0.00801	U	No	0.00266	Z	Yes	0.0255	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.0713		Yes	0.000996	Z	Yes	0.0115	Z	Yes	0.00108	U	No	0.0298	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.0451	Z	Yes	0.00145	U	No	0.00551	U	No	0.00155	U	No	0.016	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00254	U	No	0.00188	U	No	0.00177	U	No	0.00182	U	No	0.0032	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.0331	Z	Yes	0.00227	U	No	0.00424	U	No	0.0022	U	No	0.0122	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.0823	Z	Yes	0.00345	U	No	0.016	Z	Yes	0.00234	U	No	0.0483	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.103		Yes	0.00176	U	No	0.0211	Z	Yes	0.00426	U	No	0.0756		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.334		Yes	0.00258	Z	Yes	0.0724		Yes	0.00796	Z	Yes	0.16		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.0869		Yes	0.000907	U	No	0.0175	Z	Yes	0.00238	U	No	0.0434	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.0505	Z	Yes	0.00496	Z	Yes	0.0141	Z	Yes	0.00309	Z	Yes	0.0309	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.0513	Z	Yes	0.00334	Z	Yes	0.0136	Z	Yes	0.00503	Z	Yes	0.0345	Z	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	PCB-9 ng/l Value	PCB-9 ng/l Qual	PCB-9 ng/l Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00383	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.003	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00455	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.00724	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00363	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00558	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.00318	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00301	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00235	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00162	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00183	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00221	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00743	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00731	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.0134	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.00392	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00575	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.00414	Z	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-10			PCB-11			PCB-12			PCB-13			PCB-14			
													ng/l			ng/l			ng/l			ng/l			ng/l			
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00762	J	Yes	0.0291	U	No	0.00649	J	Yes		C12		0.00174	U	No	0.0486
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00552	Z	Yes	0.0185	U	No	0.00221	Z	Yes		C12		0.00109	U	No	0.0124
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00559	Z	Yes	0.0355	U	No	0.00505	Z	Yes		C12		0.00232	U	No	0.0292
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.00566	U	No	0.0371	U	No	0.0112	U	No		C12		0.00129	U	No	0.0482
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00639	Z	Yes	0.0263	U	No	0.00501	U	No		C12		0.000954	U	No	0.0237
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.0106	Z	Yes	0.0644	U	No	0.0117	U	No		C12		0.00144	U	No	0.0559
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.00509	U	No	0.0779		Yes	0.00554	Z	Yes		C12		0.00108	U	No	0.0375
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00218	Z	Yes	0.0764	U	No	0.00417	U	No		C12		0.00052	Z	Yes	0.0262
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00626	U	No	0.0474	J	Yes	0.00459	Z	Yes		C12		0.00109	U	No	0.0291
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00292	U	No	0.0257	U	No	0.0031	Z	Yes		C12		0.00119	U	No	0.0156
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00197	U	No	0.00625	U	No	0.00179	U	No		C12		0.00154	U	No	0.00193
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00386	Z	Yes	0.0199	U	No	0.00215	U	No		C12		0.00186	U	No	0.0111
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00672	Z	Yes	0.0389	U	No	0.00874	U	No		C12		0.00188	Z	Yes	0.0358
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00626	Z	Yes	0.0569	U	No	0.0122	Z	Yes		C12		0.00103	U	No	0.058
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.0147	J	Yes	0.0467	U	No	0.0228	Z	Yes		C12		0.0008	U	No	0.106
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.00625	Z	Yes	0.0375	U	No	0.00881	U	No		C12		0.00113	U	No	0.0426
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00509	Z	Yes	0.0311	U	No	0.00616	Z	Yes		C12		0.00138	U	No	0.029
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.00501	Z	Yes	0.0262	U	No	0.00883	Z	Yes		C12		0.00143	Z	Yes	0.0278

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-15		PCB-16			PCB-17			PCB-18			PCB-19			
													ng/l		ng/l			ng/l			ng/l			ng/l			
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	J	Yes	0.0519		Yes	0.069		Yes	0.136		Yes	0.0434		Yes	0.187
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	Z	Yes	0.0132	Z	Yes	0.016	Z	Yes	0.0335	J	Yes	0.0172	J	Yes	0.0327
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	J	Yes	0.0454		Yes	0.0477	Z	Yes	0.11		Yes	0.0275	J	Yes	0.122
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	Z	Yes	0.0649		Yes	0.0837		Yes	0.154		Yes	0.0463		Yes	0.21
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	Z	Yes	0.0268	J	Yes	0.0292	J	Yes	0.0613		Yes	0.0229	J	Yes	0.0752
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	Z	Yes	0.0825		Yes	0.102		Yes	0.209		Yes	0.0502		Yes	0.215
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	J	Yes	0.0456	Z	Yes	0.0545		Yes	0.107		Yes	0.0209	J	Yes	0.169
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	Z	Yes	0.0339	J	Yes	0.0358	J	Yes	0.0708		Yes	0.0184	J	Yes	0.108
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	J	Yes	0.0352	J	Yes	0.0493		Yes	0.0858		Yes	0.0289	J	Yes	0.128
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	Z	Yes	0.0154	J	Yes	0.0229	J	Yes	0.0374	J	Yes	0.0139	Z	Yes	0.0644
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	U	No	0.00111	U	No	0.000923	U	No	0.00211	U	No	0.00113	U	No	0.00197
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	Z	Yes	0.00664	Z	Yes	0.0102	J	Yes	0.018	J	Yes	0.00854	Z	Yes	0.029
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	Z	Yes	0.052		Yes	0.0639		Yes	0.113		Yes	0.0353	J	Yes	0.153
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS		Yes	0.0775		Yes	0.0928		Yes	0.18		Yes	0.0444		Yes	0.247
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS		Yes	0.13		Yes	0.199		Yes	0.305		Yes	0.104		Yes	0.423
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	Z	Yes	0.0529		Yes	0.0754		Yes	0.119		Yes	0.0438		Yes	0.182
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	J	Yes	0.0292	J	Yes	0.0393		Yes	0.0704		Yes	0.0254	J	Yes	0.0945
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	Z	Yes	0.0218	Z	Yes	0.0397		Yes	0.0671		Yes	0.0194	Z	Yes	0.0919

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-20		PCB-21			PCB-22			PCB-23			PCB-24			
													ng/l		ng/l			ng/l			ng/l			ng/l			
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS		Yes	0.0402	J	Yes	0.0498		Yes	0.000991	U	No	0.00301	J	Yes	0.0217
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	J	Yes	0.00922	U	No	0.00762	Z	Yes	0.000365	U	No	0.00211	J	Yes	0.00445
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS		Yes	0.0401		Yes	0.0339	J	Yes	0.000939	U	No	0.00323	Z	Yes	0.0122
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS		Yes	0.0599		Yes	0.0582		Yes	0.000585	U	No	0.0026	Z	Yes	0.0268
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS		Yes	0.0161	U	No	0.0197	J	Yes	0.000502	U	No	0.00121	Z	Yes	0.00716
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS		Yes	0.061		Yes	0.0654		Yes	0.000472	U	No	0.00635	J	Yes	0.0229
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS		Yes	0.0597		Yes	0.0582		Yes	0.000506	U	No	0.0023	Z	Yes	0.0137
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS		Yes	0.0357	J	Yes	0.0333	J	Yes	0.000506	U	No	0.00147	Z	Yes	0.0098
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS		Yes	0.0285	J	Yes	0.038	J	Yes	0.000591	U	No	0.00148	Z	Yes	0.0142
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS		Yes	0.0131	J	Yes	0.0189	J	Yes	0.000624	U	No	0.000946	Z	Yes	0.00687
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	U	No	0.00118	U	No	0.000463	U	No	0.000472	U	No	0.000773	U	No	0.000421
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	J	Yes	0.00556	U	No	0.0081	J	Yes	0.000703	U	No	0.000804	U	No	0.00317
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS		Yes	0.05		Yes	0.0466		Yes	0.000979	U	No	0.00371	Z	Yes	0.0172
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS		Yes	0.0832		Yes	0.074		Yes	0.000671	U	No	0.00431	Z	Yes	0.027
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS		Yes	0.11		Yes	0.126		Yes	0.000475	U	No	0.0115	J	Yes	0.0671
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS		Yes	0.0447		Yes	0.0489		Yes	0.000521	U	No	0.00333	Z	Yes	0.0244
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS		Yes	0.0281	J	Yes	0.0285	J	Yes	0.000602	U	No	0.00209	Z	Yes	0.0116
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS		Yes	0.0256	J	Yes	0.0276	J	Yes	0.000633	U	No	0.00203	Z	Yes	0.013

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-25		PCB-26		
													ng/l		ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	J	Yes	0.0367		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	J	Yes	0.0075	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	Z	Yes	0.0227	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	J	Yes	0.0406		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	Z	Yes	0.0143	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	J	Yes	0.0388	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	J	Yes	0.0267	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	J	Yes	0.0188	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	J	Yes	0.0265	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	J	Yes	0.012	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	U	No	0.000447	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	J	Yes	0.00533	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	J	Yes	0.0326	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	J	Yes	0.0439		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS		Yes	0.114		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	J	Yes	0.0374	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	J	Yes	0.0188	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	J	Yes	0.0202	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-27			PCB-28			PCB-29			PCB-30			PCB-31			PCB-32		
													ng/l			ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.0177	J	Yes		C20			C26			C18		0.134		Yes	0.0544	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00575	J	Yes		C20			C26			C18		0.0245	J	Yes	0.0171	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0107	J	Yes		C20			C26			C18		0.0895		Yes	0.0288	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.0189	Z	Yes		C20			C26			C18		0.159		Yes	0.0668		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00844	J	Yes		C20			C26			C18		0.0562		Yes	0.0308	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.0206	J	Yes		C20			C26			C18		0.169		Yes	0.0765		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.0116	J	Yes		C20			C26			C18		0.126		Yes	0.0513		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00957	J	Yes		C20			C26			C18		0.0805		Yes	0.0369	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.0124	J	Yes		C20			C26			C18		0.0877		Yes	0.0487		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00666	J	Yes		C20			C26			C18		0.0446		Yes	0.0256	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000667	U	No		C20			C26			C18		0.00147	U	No	0.000654	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00257	J	Yes		C20			C26			C18		0.0205	J	Yes	0.0102	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.0167	J	Yes		C20			C26			C18		0.116		Yes	0.0519		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.0198	Z	Yes		C20			C26			C18		0.187		Yes	0.0781		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.0434		Yes		C20			C26			C18		0.36		Yes	0.151		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.0209	J	Yes		C20			C26			C18		0.134		Yes	0.0617		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00862	J	Yes		C20			C26			C18		0.0693		Yes	0.0312	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.00821	Z	Yes		C20			C26			C18		0.0669		Yes	0.0324	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-33			PCB-34			PCB-35			PCB-36			PCB-37			
													ng/l			ng/l			ng/l			ng/l			ng/l			
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS		C21		0.000974	U	No	0.00227	J	Yes	0.00097	U	No	0.0371	J	Yes	0.00102
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS		C21		0.000359	U	No	0.000369	U	No	0.000357	U	No	0.00558	J	Yes	0.000376
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS		C21		0.000925	U	No	0.00325	J	Yes	0.000918	U	No	0.023	J	Yes	0.000969
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS		C21		0.000576	U	No	0.00432	J	Yes	0.000597	Z	Yes	0.0446		Yes	0.000603
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS		C21		0.000494	U	No	0.000508	U	No	0.000491	U	No	0.0139	Z	Yes	0.000518
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS		C21		0.00124	Z	Yes	0.00529	J	Yes	0.000462	U	No	0.0416		Yes	0.000487
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS		C21		0.000498	U	No	0.00641	J	Yes	0.000591	Z	Yes	0.0668		Yes	0.000522
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS		C21		0.000498	U	No	0.00342	Z	Yes	0.000495	U	No	0.0294	J	Yes	0.000522
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS		C21		0.000582	U	No	0.00303	J	Yes	0.000578	U	No	0.0335	J	Yes	0.00061
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS		C21		0.000614	U	No	0.00123	Z	Yes	0.00061	U	No	0.0159	J	Yes	0.000644
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS		C21		0.000465	U	No	0.000478	U	No	0.000462	U	No	0.000474	U	No	0.000487
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS		C21		0.000692	U	No	0.000711	U	No	0.000687	U	No	0.00478	J	Yes	0.000725
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS		C21		0.000963	U	No	0.00337	Z	Yes	0.000957	U	No	0.0363	J	Yes	0.00101
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS		C21		0.00164	Z	Yes	0.00754	J	Yes	0.00146	Z	Yes	0.0654		Yes	0.000692
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS		C21		0.0028	Z	Yes	0.00858	J	Yes	0.000758	Z	Yes	0.0877		Yes	0.00049
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS		C21		0.000786	Z	Yes	0.00484	J	Yes	0.000509	U	No	0.0417		Yes	0.000538
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS		C21		0.000593	U	No	0.00178	Z	Yes	0.000589	U	No	0.0239	J	Yes	0.000621
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS		C21		0.000623	U	No	0.00244	Z	Yes	0.000619	U	No	0.0242	J	Yes	0.000653

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-38		PCB-39			PCB-40			PCB-41			PCB-42			PCB-43	
													ng/l		ng/l			ng/l			ng/l			ng/l			ng/l	
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	U	No	0.000909	U	No	0.0821		Yes		C40		0.038	J	Yes	0.00508	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	U	No	0.000334	U	No	0.0165	Z	Yes		C40		0.00853	J	Yes	0.000595	U
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	U	No	0.000861	U	No	0.0526		Yes		C40		0.0275	J	Yes	0.0041	J
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	U	No	0.00156	J	Yes	0.0888		Yes		C40		0.0437		Yes	0.00789	Z
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	U	No	0.00046	U	No	0.0317	J	Yes		C40		0.0135	J	Yes	0.00355	Z
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	U	No	0.000433	U	No	0.0878		Yes		C40		0.0455		Yes	0.00606	Z
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	U	No	0.000971	Z	Yes	0.104		Yes		C40		0.0474		Yes	0.00467	Z
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	U	No	0.000464	U	No	0.0609		Yes		C40		0.0274	J	Yes	0.00365	Z
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	U	No	0.000542	U	No	0.0714		Yes		C40		0.0343	J	Yes	0.00338	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	U	No	0.000572	U	No	0.0336	J	Yes		C40		0.0142	J	Yes	0.00108	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	U	No	0.000433	U	No	0.000929	U	No		C40		0.000945	U	No	0.000868	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	U	No	0.000645	U	No	0.0103	Z	Yes		C40		0.00535	J	Yes	0.0011	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	U	No	0.000897	U	No	0.0752		Yes		C40		0.0333	J	Yes	0.00397	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	U	No	0.000615	U	No	0.114		Yes		C40		0.0554		Yes	0.00739	Z
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	U	No	0.0019	Z	Yes	0.187		Yes		C40		0.0871		Yes	0.0114	Z
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	U	No	0.00134	Z	Yes	0.095		Yes		C40		0.0479		Yes	0.00731	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	U	No	0.000552	U	No	0.0462		Yes		C40		0.0209	J	Yes	0.00324	Z
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	U	No	0.00058	U	No	0.0499		Yes		C40		0.0239	J	Yes	0.000971	U

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-44			PCB-45			PCB-46			PCB-47			PCB-48		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	Yes	0.163		Yes	0.0421	J	Yes	0.0112	J	Yes		C44		0.0261	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	No	0.0418		Yes	0.0113	J	Yes	0.0029	J	Yes		C44		0.00492	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	Yes	0.112		Yes	0.0303	J	Yes	0.0104	J	Yes		C44		0.0185	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	Yes	0.178		Yes	0.0561	Z	Yes	0.0159	J	Yes		C44		0.0268	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	Yes	0.0636		Yes	0.0185	J	Yes	0.00373	Z	Yes		C44		0.00961	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	Yes	0.17		Yes	0.0582	Z	Yes	0.0128	Z	Yes		C44		0.0289	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	Yes	0.165		Yes	0.0356	J	Yes	0.0108	J	Yes		C44		0.0315	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	Yes	0.116		Yes	0.0253	J	Yes	0.00704	J	Yes		C44		0.019	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	Yes	0.122		Yes	0.0248	J	Yes	0.00648	J	Yes		C44		0.0194	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	No	0.0628		Yes	0.014	J	Yes	0.00423	J	Yes		C44		0.00736	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	No	0.0022	U	No	0.000963	U	No	0.00114	U	No		C44		0.000922	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	No	0.0278	J	Yes	0.00597	Z	Yes	0.00144	U	No		C44		0.00117	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	Yes	0.134		Yes	0.037	J	Yes	0.00891	Z	Yes		C44		0.0199	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	Yes	0.207		Yes	0.0549		Yes	0.0178	J	Yes		C44		0.0393		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	Yes	0.329		Yes	0.0908		Yes	0.0282	J	Yes		C44		0.0566		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	Yes	0.179		Yes	0.0453		Yes	0.0138	J	Yes		C44		0.029	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	Yes	0.0883		Yes	0.0236	Z	Yes	0.00721	J	Yes		C44		0.0119	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	No	0.087		Yes	0.0226	J	Yes	0.00808	Z	Yes		C44		0.0135	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-49			PCB-50			PCB-51			PCB-52			PCB-53			PCB-54	
													ng/l			ng/l			ng/l			ng/l			ng/l			ng/l	
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.0979		Yes	0.0307		Yes		C45		0.184		Yes		C50		0.00128	U
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.0235	J	Yes	0.00899	J	Yes		C45		0.0523		Yes		C50		0.00135	U
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0696		Yes	0.0242	Z	Yes		C45		0.133		Yes		C50		0.00175	U
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.106		Yes	0.0354	J	Yes		C45		0.186		Yes		C50		0.00265	Z
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.04		Yes	0.0111	Z	Yes		C45		0.0777		Yes		C50		0.00148	U
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.106		Yes	0.0401	J	Yes		C45		0.181		Yes		C50		0.00592	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.0941		Yes	0.0233	J	Yes		C45		0.172		Yes		C50		0.00127	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.067		Yes	0.0184	J	Yes		C45		0.138		Yes		C50		0.00111	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.0729		Yes	0.0185	J	Yes		C45		0.142		Yes		C50		0.00113	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.0391		Yes	0.0101	J	Yes		C45		0.0776		Yes		C50		0.000762	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000765	U	No	0.000894	U	No		C45		0.0015	U	No		C50		0.00125	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.0148	J	Yes	0.00412	Z	Yes		C45		0.0341	J	Yes		C50		0.00104	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.0821		Yes	0.0283	J	Yes		C45		0.151		Yes		C50		0.00198	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.128		Yes	0.0382	J	Yes		C45		0.232		Yes		C50		0.00171	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.204		Yes	0.0638		Yes		C45		0.374		Yes		C50		0.00153	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.114		Yes	0.0331	J	Yes		C45		0.225		Yes		C50		0.0019	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.055		Yes	0.0164	J	Yes		C45		0.0989		Yes		C50		0.00128	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.0566		Yes	0.017	J	Yes		C45		0.101		Yes		C50		0.00144	U

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-55			PCB-56			PCB-57			PCB-58			PCB-59		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00256	J	Yes	0.0443	J	Yes	0.00109	U	No	0.00108	U	No	0.0134	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.000493	U	No	0.00739	Z	Yes	0.00047	U	No	0.000467	U	No	0.00359	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00372	Z	Yes	0.0273	J	Yes	0.00122	U	No	0.00121	U	No	0.0108	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.00335	Z	Yes	0.0499		Yes	0.000701	U	No	0.00443	Z	Yes	0.0159	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00074	U	No	0.0167	J	Yes	0.000704	U	No	0.00146	Z	Yes	0.00544	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00476	J	Yes	0.045		Yes	0.000777	U	No	0.000774	U	No	0.0168	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.00291	Z	Yes	0.0473		Yes	0.000757	U	No	0.000753	U	No	0.017	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00365	J	Yes	0.0365	J	Yes	0.000586	Z	Yes	0.000602	U	No	0.0104	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00232	Z	Yes	0.0519		Yes	0.00071	U	No	0.000707	U	No	0.00762	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.000898	U	No	0.02	J	Yes	0.000855	U	No	0.000851	U	No	0.00594	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00072	U	No	0.000677	U	No	0.000685	U	No	0.000682	U	No	0.000661	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.000911	U	No	0.00551	Z	Yes	0.000867	U	No	0.000863	U	No	0.00152	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00233	Z	Yes	0.0442		Yes	0.00114	U	No	0.00113	U	No	0.0136	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00388	Z	Yes	0.0675		Yes	0.000831	U	No	0.000827	U	No	0.0222	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.00619	J	Yes	0.105		Yes	0.00274	J	Yes	0.00306	J	Yes	0.0346	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.00294	Z	Yes	0.0535		Yes	0.000619	U	No	0.000616	U	No	0.0186	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00075	U	No	0.0274	J	Yes	0.000714	U	No	0.000711	U	No	0.00887	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.00127	Z	Yes	0.0272	J	Yes	0.000766	U	No	0.000763	U	No	0.00892	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-60			PCB-61			PCB-62			PCB-63			PCB-64			PCB-65	
													ng/l			ng/l			ng/l			ng/l			ng/l			ng/l	
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.0216	J	Yes	0.166		Yes		C59		0.0044	J	Yes	0.0644		Yes		C44
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00257	Z	Yes	0.0329	J	Yes		C59		0.000435	U	No	0.0143	J	Yes		C44
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00853	Z	Yes	0.0991		Yes		C59		0.00203	Z	Yes	0.0416		Yes		C44
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.0225	J	Yes	0.178		Yes		C59		0.00487	Z	Yes	0.0654		Yes		C44
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.0068	Z	Yes	0.066		Yes		C59		0.00179	Z	Yes	0.0251	J	Yes		C44
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.0151	J	Yes	0.158		Yes		C59		0.00609	J	Yes	0.0616	Z	Yes		C44
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.025	J	Yes	0.219		Yes		C59		0.00465	J	Yes	0.0759		Yes		C44
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.0179	J	Yes	0.144		Yes		C59		0.00254	Z	Yes	0.0476		Yes		C44
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.0266	J	Yes	0.17		Yes		C59		0.00414	J	Yes	0.0551		Yes		C44
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.0107	J	Yes	0.0763		Yes		C59		0.00168	J	Yes	0.0292	J	Yes		C44
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000697	U	No	0.00204	U	No		C59		0.000635	U	No	0.000626	U	No		C44
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00297	J	Yes	0.0279	J	Yes		C59		0.000804	U	No	0.0101	J	Yes		C44
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.0203	J	Yes	0.155		Yes		C59		0.00335	Z	Yes	0.0536		Yes		C44
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.033	J	Yes	0.253		Yes		C59		0.00694	Z	Yes	0.0853		Yes		C44
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.0512		Yes	0.381		Yes		C59		0.0113	J	Yes	0.141		Yes		C44
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.0271	J	Yes	0.226		Yes		C59		0.00645	Z	Yes	0.0772		Yes		C44
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.0111	J	Yes	0.0992		Yes		C59		0.0031	Z	Yes	0.0366	J	Yes		C44
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.013	J	Yes	0.101		Yes		C59		0.00328	J	Yes	0.0382	J	Yes		C44

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-66			PCB-67			PCB-68			PCB-69			PCB-70			PCB-71	
													ng/l			ng/l			ng/l			ng/l			ng/l			ng/l	
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS		0.101		Yes	0.00426	J	Yes	0.00319	J	Yes		C49			C61			C40
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS		0.0193	J	Yes	0.000422	U	No	0.00122	J	Yes		C49			C61			C40
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS		0.0552		Yes	0.00283	J	Yes	0.0011	U	No		C49			C61			C40
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS		0.101		Yes	0.00599	J	Yes	0.00338	U	No		C49			C61			C40
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS		0.0368	J	Yes	0.00156	J	Yes	0.000638	U	No		C49			C61			C40
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS		0.0904		Yes	0.00479	Z	Yes	0.000705	U	No		C49			C61			C40
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS		0.114		Yes	0.00557	J	Yes	0.000686	U	No		C49			C61			C40
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS		0.0801		Yes	0.00276	J	Yes	0.000996	Z	Yes		C49			C61			C40
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS		0.11		Yes	0.00304	J	Yes	0.000644	U	No		C49			C61			C40
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS		0.048		Yes	0.00141	J	Yes	0.000775	U	No		C49			C61			C40
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS		0.000656	U	No	0.000616	U	No	0.000621	U	No		C49			C61			C40
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS		0.0164	J	Yes	0.00078	U	No	0.000786	U	No		C49			C61			C40
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS		0.0966		Yes	0.00357	Z	Yes	0.00103	U	No		C49			C61			C40
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS		0.155		Yes	0.00649	J	Yes	0.00209	Z	Yes		C49			C61			C40
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS		0.226		Yes	0.00959	J	Yes	0.00283	J	Yes		C49			C61			C40
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS		0.131		Yes	0.00573	J	Yes	0.000561	U	No		C49			C61			C40
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS		0.0583		Yes	0.00322	J	Yes	0.000647	U	No		C49			C61			C40
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS		0.0592		Yes	0.00299	J	Yes	0.000694	U	No		C49			C61			C40

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-72			PCB-73			PCB-74			PCB-75			PCB-76			PCB-77		
													ng/l			ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS		0.00106	U	No		C43			C61			C59			C61		0.0108	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS		0.000457	U	No		C43			C61			C59			C61		0.00173	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS		0.00119	U	No		C43			C61			C59			C61		0.00798	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS		0.00179	Z	Yes		C43			C61			C59			C61		0.0129	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS		0.000685	U	No		C43			C61			C59			C61		0.00491	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS		0.00162	J	Yes		C43			C61			C59			C61		0.0119	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS		0.00121	Z	Yes		C43			C61			C59			C61		0.0137	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS		0.000963	Z	Yes		C43			C61			C59			C61		0.012	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS		0.000691	U	No		C43			C61			C59			C61		0.0132	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS		0.000832	U	No		C43			C61			C59			C61		0.00563	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS		0.000666	U	No		C43			C61			C59			C61		0.000628	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS		0.000843	U	No		C43			C61			C59			C61		0.00125	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS		0.0011	U	No		C43			C61			C59			C61		0.0121	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS		0.00274	J	Yes		C43			C61			C59			C61		0.0213	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS		0.00452	J	Yes		C43			C61			C59			C61		0.0352	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS		0.00171	Z	Yes		C43			C61			C59			C61		0.0163	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS		0.000695	U	No		C43			C61			C59			C61		0.00754	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS		0.000745	U	No		C43			C61			C59			C61		0.00796	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	PCB-78 ng/l Value	PCB-78 ng/l Qual	PCB-78 ng/l Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00112	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.000485	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00126	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.000724	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.000728	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.000803	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.000782	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.000625	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.000734	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.000884	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000708	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.000896	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00117	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.000858	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.000541	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.000639	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.000738	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.000792	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-79			PCB-80			PCB-81			PCB-82			PCB-83		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.000984	U	No	0.00096	U	No	0.00102	U	No	0.0214	J	Yes	0.0951		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.000426	U	No	0.000416	U	No	0.00044	U	No	0.00223	Z	Yes	0.0164	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00111	U	No	0.00108	U	No	0.00113	U	No	0.00476	Z	Yes	0.026	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.0013	Z	Yes	0.00062	U	No	0.000648	U	No	0.0233	J	Yes	0.0905		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.000639	U	No	0.000624	U	No	0.000672	U	No	0.0069	J	Yes	0.0349	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.000925	Z	Yes	0.000688	U	No	0.000727	U	No	0.0141	Z	Yes	0.0698		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.00142	Z	Yes	0.00067	U	No	0.000727	U	No	0.0204	J	Yes	0.0974		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00142	Z	Yes	0.000535	U	No	0.000635	Z	Yes	0.0214	Z	Yes	0.105		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00115	J	Yes	0.000629	U	No	0.000675	U	No	0.0211	J	Yes	0.098		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.000776	U	No	0.000757	U	No	0.000793	U	No	0.00803	Z	Yes	0.0473		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000621	U	No	0.000607	U	No	0.000656	U	No	0.00119	U	No	0.000998	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.000786	U	No	0.000768	U	No	0.000806	U	No	0.00136	U	No	0.0162	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00279	Z	Yes	0.00101	U	No	0.00109	U	No	0.0177	Z	Yes	0.0806		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00264	Z	Yes	0.000735	U	No	0.00141	J	Yes	0.0385		Yes	0.143		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.00338	Z	Yes	0.000463	U	No	0.00189	J	Yes	0.0575	Z	Yes	0.223		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.00249	J	Yes	0.000548	U	No	0.000573	U	No	0.0415		Yes	0.172		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.000648	U	No	0.000632	U	No	0.00169	Z	Yes	0.0138	J	Yes	0.0678		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.000695	U	No	0.000679	U	No	0.000728	U	No	0.0117	Z	Yes	0.0644		Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-84			PCB-85			PCB-86			PCB-87			PCB-88			
													ng/l			ng/l			ng/l			ng/l			ng/l			
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.0421		Yes	0.0307		Yes	0.108		Yes		C86		0.0208	J	Yes	0.0017
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00685	J	Yes	0.00439	J	Yes	0.0181	J	Yes		C86		0.00342	Z	Yes	0.000676
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0158	J	Yes	0.00735	J	Yes	0.027	Z	Yes		C86		0.00684	Z	Yes	0.00145
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.0446		Yes	0.0333	J	Yes	0.111		Yes		C86		0.028	J	Yes	0.00104
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.0134	Z	Yes	0.0103	J	Yes	0.0516		Yes		C86		0.00963	J	Yes	0.00119
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.0393	J	Yes	0.0167	Z	Yes	0.0834		Yes		C86		0.0195	J	Yes	0.00137
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.0466		Yes	0.0322	J	Yes	0.116		Yes		C86		0.0269	J	Yes	0.00113
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.0465		Yes	0.0312	Z	Yes	0.121		Yes		C86		0.0251	J	Yes	0.00104
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.0385	J	Yes	0.0341	J	Yes	0.112		Yes		C86		0.022	J	Yes	0.00118
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.0197	J	Yes	0.0127	Z	Yes	0.0441	Z	Yes		C86		0.00958	J	Yes	0.00119
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00113	U	No	0.000822	U	No	0.000841	U	No		C86		0.00101	U	No	0.0011
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00408	J	Yes	0.00344	Z	Yes	0.0125	Z	Yes		C86		0.00301	J	Yes	0.00126
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.037	Z	Yes	0.0289	Z	Yes	0.109		Yes		C86		0.0247	J	Yes	0.00217
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.0677		Yes	0.0498		Yes	0.179		Yes		C86		0.0401		Yes	0.00158
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.0972		Yes	0.082		Yes	0.253		Yes		C86		0.0622		Yes	0.00682
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.0764		Yes	0.0602		Yes	0.2		Yes		C86		0.0455		Yes	0.00134
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.0261	Z	Yes	0.0232	J	Yes	0.0739		Yes		C86		0.0164	J	Yes	0.00126
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.0244	Z	Yes	0.0232	J	Yes	0.0691		Yes		C86		0.0156	Z	Yes	0.00147

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-89		PCB-90			PCB-91			PCB-92			PCB-93			PCB-94	
													ng/l		ng/l			ng/l			ng/l			ng/l			ng/l	
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	U	No	0.163		Yes		C88		0.0258	J	Yes	0.00343	J	Yes	0.0017	U
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	U	No	0.0262	J	Yes		C88		0.00526	J	Yes	0.0006	U	No	0.000675	U
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	U	No	0.0511		Yes		C88		0.00698	Z	Yes	0.00129	U	No	0.00145	U
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	U	No	0.152		Yes		C88		0.0313	J	Yes	0.00441	Z	Yes	0.00104	U
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	U	No	0.0688		Yes		C88		0.0114	J	Yes	0.00106	U	No	0.00119	U
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	U	No	0.122		Yes		C88		0.0236	J	Yes	0.00122	U	No	0.00137	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	U	No	0.178		Yes		C88		0.0306	J	Yes	0.001	U	No	0.00113	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	U	No	0.181		Yes		C88		0.0314	J	Yes	0.00186	Z	Yes	0.00104	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	U	No	0.149		Yes		C88		0.0252	J	Yes	0.00105	U	No	0.00118	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	U	No	0.0763		Yes		C88		0.0119	J	Yes	0.00106	U	No	0.00119	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	U	No	0.000856	U	No		C88		0.000971	U	No	0.000975	U	No	0.0011	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	U	No	0.029	J	Yes		C88		0.00464	J	Yes	0.00112	U	No	0.00126	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	U	No	0.151		Yes		C88		0.0255	J	Yes	0.00192	U	No	0.00217	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	U	No	0.238		Yes		C88		0.0479		Yes	0.00171	Z	Yes	0.00158	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	Z	Yes	0.359		Yes		C88		0.0696		Yes	0.00281	Z	Yes	0.00351	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	U	No	0.295		Yes		C88		0.0558		Yes	0.00408	Z	Yes	0.00134	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	U	No	0.103		Yes		C88		0.0195	J	Yes	0.00284	Z	Yes	0.00126	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	U	No	0.107		Yes		C88		0.0177	Z	Yes	0.0013	U	No	0.00147	U

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-95			PCB-96			PCB-97			PCB-98			PCB-99			
													ng/l			ng/l			ng/l			ng/l			ng/l			
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	No	0.13		Yes	0.00127	U	No		C86		0.00525	J	Yes		C83		
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	No	0.0273	J	Yes	0.000505	U	No		C86		0.000582	U	No		C83		
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	No	0.0459	Z	Yes	0.00109	U	No		C86		0.00125	U	No		C83		
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	No	0.132		Yes	0.000779	U	No		C86		0.0072	J	Yes		C83		
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	No	0.0553		Yes	0.00089	U	No		C86		0.00102	U	No		C83		
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	No	0.12		Yes	0.00102	U	No		C86		0.004	Z	Yes		C83		
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	No	0.152		Yes	0.000846	U	No		C86		0.00583	J	Yes		C83		
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	No	0.146		Yes	0.00119	Z	Yes		C86		0.00501	J	Yes		C83		
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	No	0.127		Yes	0.000885	U	No		C86		0.00666	J	Yes		C83		
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	No	0.0625		Yes	0.000889	U	No		C86		0.00102	U	No		C83		
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	No	0.00103	U	No	0.000821	U	No		C86		0.000945	U	No		C83		
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	No	0.0201	J	Yes	0.000944	U	No		C86		0.00109	U	No		C83		
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	No	0.127		Yes	0.00162	U	No		C86		0.00528	J	Yes		C83		
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	No	0.208		Yes	0.00118	U	No		C86		0.0092	Z	Yes		C83		
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	Yes	0.302		Yes	0.00516	J	Yes		C86		0.0164	J	Yes		C83		
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	No	0.237		Yes	0.00214	Z	Yes		C86		0.0103	J	Yes		C83		
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	No	0.086		Yes	0.000941	U	No		C86		0.00108	U	No		C83		
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	No	0.0831		Yes	0.0011	U	No		C86		0.00126	U	No		C83		

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-100			PCB-101			PCB-102			PCB-103			PCB-104			PCB-105		
													ng/l			ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	C93			C90			C98			0.00149	U	No	0.00113	U	No	0.0668		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	C93			C90			C98			0.000592	U	No	0.00045	U	No	0.00793	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	C93			C90			C98			0.00127	U	No	0.000967	U	No	0.0144	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	C93			C90			C98			0.000913	U	No	0.000694	U	No	0.0566		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	C93			C90			C98			0.00104	U	No	0.000793	U	No	0.0222	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	C93			C90			C98			0.00278	J	Yes	0.000912	U	No	0.0366	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	C93			C90			C98			0.00122	Z	Yes	0.000754	U	No	0.0741		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	C93			C90			C98			0.000913	U	No	0.000694	U	No	0.0715		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	C93			C90			C98			0.00104	U	No	0.000789	U	No	0.0712		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	C93			C90			C98			0.00104	U	No	0.000792	U	No	0.0319	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	C93			C90			C98			0.000963	U	No	0.000732	U	No	0.000594	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	C93			C90			C98			0.00111	U	No	0.000841	U	No	0.0102	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	C93			C90			C98			0.0019	U	No	0.00144	U	No	0.0558		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	C93			C90			C98			0.00138	U	No	0.00105	U	No	0.1		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	C93			C90			C98			0.00385	J	Yes	0.00069	U	No	0.147		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	C93			C90			C98			0.0029	J	Yes	0.000891	U	No	0.11		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	C93			C90			C98			0.0011	U	No	0.000839	U	No	0.0381		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	C93			C90			C98			0.00129	U	No	0.000978	U	No	0.0386		Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-106			PCB-107		
													ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00108	U	No	0.0106	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.000393	U	No	0.00136	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00125	U	No	0.00294	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.000603	U	No	0.0106	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.000535	U	No	0.00466	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.000528	U	No	0.0061	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.00077	U	No	0.0124	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.000691	U	No	0.0115	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00078	U	No	0.00797	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00082	U	No	0.0047	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000644	U	No	0.000624	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.000748	U	No	0.000726	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00116	U	No	0.0101	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.000944	U	No	0.0185	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.000648	U	No	0.0264	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.000726	U	No	0.0225	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.000742	U	No	0.00681	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.000842	U	No	0.00514	Z	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-108			PCB-109			PCB-110			PCB-111			PCB-112		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00695	J	Yes		C86		0.205		Yes	0.00106	U	No	0.00116	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.0011	Z	Yes		C86		0.0317	Z	Yes	0.000423	U	No	0.00046	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00127	U	No		C86		0.063		Yes	0.000909	U	No	0.000987	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.00586	J	Yes		C86		0.184		Yes	0.000652	U	No	0.000709	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.0024	J	Yes		C86		0.0765	Z	Yes	0.000745	U	No	0.000809	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00356	Z	Yes		C86		0.149		Yes	0.000857	U	No	0.000931	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.00729	J	Yes		C86		0.233		Yes	0.000708	U	No	0.000769	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00732	J	Yes		C86		0.243		Yes	0.000652	U	No	0.000708	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00545	Z	Yes		C86		0.212		Yes	0.000741	U	No	0.000805	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00222	Z	Yes		C86		0.0955		Yes	0.000744	U	No	0.000809	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000657	U	No		C86		0.00159	U	No	0.000688	U	No	0.000747	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.000763	U	No		C86		0.0351	J	Yes	0.00079	U	No	0.000858	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00626	Z	Yes		C86		0.182		Yes	0.00136	U	No	0.00147	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.0107	U	No		C86		0.325		Yes	0.000987	U	No	0.00107	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.017	J	Yes		C86		0.487		Yes	0.00119	J	Yes	0.000704	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.012	J	Yes		C86		0.362		Yes	0.000838	U	No	0.00091	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00352	Z	Yes		C86		0.132		Yes	0.000788	U	No	0.000856	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.00342	Z	Yes		C86		0.133		Yes	0.00092	U	No	0.000999	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-113			PCB-114			PCB-115			PCB-116			PCB-117			PCB-118			
													ng/l			ng/l			ng/l			ng/l			ng/l			ng/l			
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS		C90		0.00348	J	Yes		C110			C85			C85		0.156		Yes	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS		C90		0.000342	U	No		C110			C85			C85		0.0212	J	Yes	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS		C90		0.0011	U	No		C110			C85			C85		0.0427		Yes	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS		C90		0.00416	J	Yes		C110			C85			C85		0.127		Yes	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS		C90		0.00165	J	Yes		C110			C85			C85		0.0596		Yes	
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS		C90		0.000465	U	No		C110			C85			C85		0.0924		Yes	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS		C90		0.00271	Z	Yes		C110			C85			C85		0.173		Yes	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS		C90		0.00337	J	Yes		C110			C85			C85		0.176		Yes	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS		C90		0.00247	J	Yes		C110			C85			C85		0.152		Yes	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS		C90		0.000722	U	No		C110			C85			C85		0.0774		Yes	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS		C90		0.000593	U	No		C110			C85			C85		0.000608	U	No	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS		C90		0.000674	U	No		C110			C85			C85		0.0276	J	Yes	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS		C90		0.00323	J	Yes		C110			C85			C85		0.129		Yes	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS		C90		0.00563	J	Yes		C110			C85			C85		0.224		Yes	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS		C90		0.00906	J	Yes		C110			C85			C85		0.336		Yes	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS		C90		0.00752	J	Yes		C110			C85			C85		0.256		Yes	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS		C90		0.000669	U	No		C110			C85			C85		0.085		Yes	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS		C90		0.0022	J	Yes		C110			C85			C85		0.0911		Yes	

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-119		PCB-120			PCB-121			PCB-122			PCB-123			PCB-124		
													ng/l		ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	C86		0.00109	U	No	0.0011	U	No	0.00174	J	Yes	0.00214	J	Yes		C108	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	C86		0.000435	U	No	0.000439	U	No	0.000428	U	No	0.000384	U	No		C108	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	C86		0.000935	U	No	0.000943	U	No	0.00136	U	No	0.00118	U	No		C108	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	C86		0.000671	U	No	0.000677	U	No	0.00355	Z	Yes	0.00194	Z	Yes		C108	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	C86		0.000767	U	No	0.000773	U	No	0.000583	U	No	0.00114	J	Yes		C108	
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	C86		0.000882	U	No	0.000889	U	No	0.00154	Z	Yes	0.00248	U	No		C108	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	C86		0.000729	U	No	0.000734	U	No	0.00319	J	Yes	0.00308	J	Yes		C108	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	C86		0.000671	U	No	0.000676	U	No	0.00301	J	Yes	0.00393	J	Yes		C108	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	C86		0.000763	U	No	0.000769	U	No	0.00251	Z	Yes	0.00217	Z	Yes		C108	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	C86		0.000766	U	No	0.000772	U	No	0.000893	U	No	0.00117	Z	Yes		C108	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	C86		0.000708	U	No	0.000713	U	No	0.000701	U	No	0.000648	U	No		C108	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	C86		0.000813	U	No	0.000819	U	No	0.000815	U	No	0.000763	U	No		C108	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	C86		0.0014	U	No	0.00141	U	No	0.00126	U	No	0.00111	Z	Yes		C108	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	C86		0.00102	U	No	0.00102	U	No	0.00405	Z	Yes	0.00322	Z	Yes		C108	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	C86		0.00184	Z	Yes	0.000672	U	No	0.00661	J	Yes	0.00969	J	Yes		C108	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	C86		0.00133	Z	Yes	0.000869	U	No	0.00422	Z	Yes	0.00384	Z	Yes		C108	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	C86		0.000811	U	No	0.000817	U	No	0.000808	U	No	0.00262	Z	Yes		C108	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	C86		0.000946	U	No	0.000954	U	No	0.000917	U	No	0.00149	Z	Yes		C108	

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-125			PCB-126			PCB-127			PCB-128		
													ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS		C86		0.00106	U	No	0.00107	U	No	0.0313		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS		C86		0.000423	U	No	0.000388	U	No	0.00446	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS		C86		0.00143	U	No	0.00123	U	No	0.0139	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS		C86		0.000594	U	No	0.000596	U	No	0.0309	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS		C86		0.000497	U	No	0.000529	U	No	0.0108	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS		C86		0.000554	U	No	0.000522	U	No	0.0188	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS		C86		0.0014	J	Yes	0.000761	U	No	0.042	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS		C86		0.000934	J	Yes	0.000683	U	No	0.0398	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS		C86		0.000793	U	No	0.000771	U	No	0.0309	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS		C86		0.000861	U	No	0.00081	U	No	0.0126	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS		C86		0.000647	U	No	0.000636	U	No	0.00097	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS		C86		0.000754	U	No	0.00074	U	No	0.0047	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS		C86		0.00115	U	No	0.00115	U	No	0.0287	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS		C86		0.00233	U	No	0.000933	U	No	0.0531		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS		C86		0.00336	Z	Yes	0.000584	Z	Yes	0.0734		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS		C86		0.00195	U	No	0.000718	U	No	0.0609		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS		C86		0.000735	U	No	0.000733	U	No	0.0218	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS		C86		0.000834	U	No	0.000832	U	No	0.0182	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-129			PCB-130			PCB-131		
													ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.208		Yes	0.0111	J	Yes	0.00225	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.0402		Yes	0.00114	U	No	0.00116	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0886		Yes	0.0034	U	No	0.00348	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.183		Yes	0.0118	J	Yes	0.00299	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.0817		Yes	0.00394	Z	Yes	0.00151	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.129		Yes	0.00818	Z	Yes	0.0012	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.302		Yes	0.0161	J	Yes	0.00203	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.281		Yes	0.0164	J	Yes	0.00281	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.207		Yes	0.0087	Z	Yes	0.00184	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.11		Yes	0.00512	J	Yes	0.00199	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00206	U	No	0.00129	U	No	0.00133	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.0362	J	Yes	0.00143	U	No	0.00147	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.181		Yes	0.0111	Z	Yes	0.00242	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.314		Yes	0.0184	J	Yes	0.00388	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.458		Yes	0.0303	J	Yes	0.00559	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.341		Yes	0.0213	J	Yes	0.00458	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.114		Yes	0.00759	J	Yes	0.00128	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.116		Yes	0.00839	J	Yes	0.00138	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-132			PCB-133			PCB-134			PCB-135			PCB-136		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.0581		Yes	0.00257	J	Yes	0.00747	J	Yes	0.0514		Yes	0.0173	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.0116	Z	Yes	0.00107	U	No	0.00114	U	No	0.00533	Z	Yes	0.00355	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0337	J	Yes	0.00319	U	No	0.0034	U	No	0.0143	Z	Yes	0.00626	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.0642		Yes	0.00117	U	No	0.0105	Z	Yes	0.0571		Yes	0.021	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.0252	J	Yes	0.00139	U	No	0.00269	Z	Yes	0.0202	J	Yes	0.00889	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.0429		Yes	0.0011	U	No	0.00733	Z	Yes	0.04	J	Yes	0.0135	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.089		Yes	0.00335	J	Yes	0.0124	J	Yes	0.0775		Yes	0.0223	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.0803		Yes	0.00304	Z	Yes	0.0116	J	Yes	0.0765		Yes	0.025	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.0615		Yes	0.00169	U	No	0.00778	J	Yes	0.0492		Yes	0.0185	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.0282	J	Yes	0.00182	U	No	0.00425	J	Yes	0.0217	J	Yes	0.00575	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00126	U	No	0.00122	U	No	0.0013	U	No	0.00119	U	No	0.000877	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00612	Z	Yes	0.00135	U	No	0.00144	U	No	0.0052	Z	Yes	0.00309	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.0525		Yes	0.00222	U	No	0.00668	Z	Yes	0.0594		Yes	0.0216	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.0962		Yes	0.00522	J	Yes	0.0157	J	Yes	0.0997		Yes	0.0325	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.137		Yes	0.0076	J	Yes	0.0253	J	Yes	0.134		Yes	0.046		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.102		Yes	0.00516	J	Yes	0.02	J	Yes	0.105		Yes	0.0404		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.0343	J	Yes	0.00117	U	No	0.00436	J	Yes	0.0355	J	Yes	0.0131	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.0345	J	Yes	0.00126	U	No	0.00473	Z	Yes	0.0376	J	Yes	0.0105	Z	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-137			PCB-138		
													ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00863	J	Yes		C129	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00198	J	Yes		C129	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00293	U	No		C129	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.00958	J	Yes		C129	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00298	Z	Yes		C129	
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00596	J	Yes		C129	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.0125	J	Yes		C129	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.0104	J	Yes		C129	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00709	J	Yes		C129	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00274	Z	Yes		C129	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00112	U	No		C129	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00124	U	No		C129	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00767	Z	Yes		C129	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.0154	J	Yes		C129	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.0214	J	Yes		C129	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.0162	Z	Yes		C129	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00449	Z	Yes		C129	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.00566	Z	Yes		C129	

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-139			PCB-140			PCB-141			PCB-142			PCB-143			PCB-144	
													ng/l			ng/l			ng/l			ng/l			ng/l			ng/l	
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00367	J	Yes		C139		0.0363	J	Yes	0.00216	U	No		C134		0.00426	J
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.000974	U	No		C139		0.00465	Z	Yes	0.00112	U	No		C134		0.000987	U
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00291	U	No		C139		0.012	Z	Yes	0.00334	U	No		C134		0.00167	U
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.00269	Z	Yes		C139		0.0331	J	Yes	0.00122	U	No		C134		0.00714	J
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00127	U	No		C139		0.00947	Z	Yes	0.00145	U	No		C134		0.00133	U
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00183	Z	Yes		C139		0.0196	J	Yes	0.00116	U	No		C134		0.00425	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.00337	J	Yes		C139		0.052		Yes	0.00195	U	No		C134		0.00989	Z
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00353	Z	Yes		C139		0.0471		Yes	0.00137	U	No		C134		0.00893	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00154	U	No		C139		0.0329	J	Yes	0.00177	U	No		C134		0.00591	Z
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00166	U	No		C139		0.0154	J	Yes	0.00191	U	No		C134		0.00292	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00111	U	No		C139		0.00116	U	No	0.00128	U	No		C134		0.00111	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00123	U	No		C139		0.00372	Z	Yes	0.00141	U	No		C134		0.00115	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00202	U	No		C139		0.0333	J	Yes	0.00232	U	No		C134		0.00923	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00524	J	Yes		C139		0.0509		Yes	0.00201	U	No		C134		0.0147	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.00731	Z	Yes		C139		0.0734		Yes	0.00129	U	No		C134		0.0185	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.00558	Z	Yes		C139		0.0573		Yes	0.0015	U	No		C134		0.0133	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00107	U	No		C139		0.0178	J	Yes	0.00123	U	No		C134		0.00425	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.00115	U	No		C139		0.0173	J	Yes	0.00132	U	No		C134		0.00418	J

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-145			
													ng/l			
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	Yes	0.00119	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	No	0.000746	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	No	0.00126	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	Yes	0.000691	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	No	0.001	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	Yes	0.000949	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	Yes	0.000875	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	Yes	0.000811	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	Yes	0.000861	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	Yes	0.000698	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	No	0.000838	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	No	0.000874	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	Yes	0.00203	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	Yes	0.00131	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	Yes	0.000972	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	Yes	0.00129	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	Yes	0.000916	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	Yes	0.00102	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-146			PCB-147			PCB-148			PCB-149			PCB-150			PCB-151	
													ng/l			ng/l			ng/l			ng/l			ng/l			ng/l	
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.0245	J	Yes	0.129		Yes	0.00166	U	No		C147		0.00116	U	No		C135
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00565	Z	Yes	0.0325	J	Yes	0.00104	U	No		C147		0.000727	U	No		C135
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0147	J	Yes	0.0807		Yes	0.00177	U	No		C147		0.00123	U	No		C135
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.0268	J	Yes	0.151		Yes	0.000967	U	No		C147		0.000674	U	No		C135
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.01	J	Yes	0.0551	Z	Yes	0.0014	U	No		C147		0.000978	U	No		C135
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.0166	Z	Yes	0.0987		Yes	0.00133	U	No		C147		0.000925	U	No		C135
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.0367	J	Yes	0.206		Yes	0.00122	U	No		C147		0.000853	U	No		C135
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.0347	J	Yes	0.183		Yes	0.00113	U	No		C147		0.000791	U	No		C135
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.0213	J	Yes	0.137		Yes	0.0012	U	No		C147		0.000839	U	No		C135
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.011	Z	Yes	0.0646		Yes	0.000976	U	No		C147		0.00068	U	No		C135
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00105	U	No	0.00108	U	No	0.00117	U	No		C147		0.000817	U	No		C135
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00315	J	Yes	0.0176	J	Yes	0.00122	U	No		C147		0.000851	U	No		C135
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.0236	J	Yes	0.114		Yes	0.00285	U	No		C147		0.00198	U	No		C135
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.0413		Yes	0.201		Yes	0.00183	U	No		C147		0.00127	U	No		C135
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.0545		Yes	0.29		Yes	0.00136	U	No		C147		0.000948	U	No		C135
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.0438		Yes	0.224		Yes	0.0018	U	No		C147		0.00125	U	No		C135
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.0112	Z	Yes	0.0772		Yes	0.00128	U	No		C147		0.000893	U	No		C135
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.0131	J	Yes	0.0734		Yes	0.00142	U	No		C147		0.000992	U	No		C135

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-152		
													ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS		0.00118	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS		0.000742	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS		0.00126	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS		0.000687	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS		0.000998	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS		0.000943	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS		0.00087	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS		0.000806	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS		0.000855	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS		0.000693	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS		0.000833	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS		0.000868	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS		0.00202	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS		0.0013	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS		0.000966	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS		0.00128	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS		0.000911	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS		0.00101	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-153			PCB-154			PCB-155			PCB-156			PCB-157			
													ng/l			ng/l			ng/l			ng/l			ng/l			
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.15		Yes	0.00137	U	No	0.00113	U	No	0.023		Yes		C156		0.0211
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.032	J	Yes	0.000865	U	No	0.000707	U	No	0.00269	Z	Yes		C156		0.00325
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0724		Yes	0.00146	U	No	0.0012	U	No	0.00643	Z	Yes		C156		0.00744
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.135		Yes	0.00209	J	Yes	0.000655	U	No	0.0181	J	Yes		C156		0.0198
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.064		Yes	0.00116	U	No	0.000951	U	No	0.009	J	Yes		C156		0.00685
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.0945		Yes	0.0011	U	No	0.0009	U	No	0.0106	J	Yes		C156		0.0103
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.221		Yes	0.00101	U	No	0.00083	U	No	0.0308	J	Yes		C156		0.027
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.208		Yes	0.00225	J	Yes	0.000769	U	No	0.0297	J	Yes		C156		0.0267
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.15		Yes	0.000779	Z	Yes	0.000816	U	No	0.0229	J	Yes		C156		0.0184
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.0797		Yes	0.00106	J	Yes	0.000661	U	No	0.00866	Z	Yes		C156		0.00895
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000867	U	No	0.000971	U	No	0.000794	U	No	0.00117	U	No		C156		0.000791
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.0288	J	Yes	0.00101	U	No	0.000828	U	No	0.00286	Z	Yes		C156		0.00222
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.132		Yes	0.00168	Z	Yes	0.00193	U	No	0.0218	J	Yes		C156		0.0197
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.228		Yes	0.00701	J	Yes	0.00124	U	No	0.0404		Yes		C156		0.0346
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.316		Yes	0.00388	Z	Yes	0.000921	U	No	0.0513		Yes		C156		0.0472
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.236		Yes	0.00441	Z	Yes	0.00122	U	No	0.0425		Yes		C156		0.0364
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.0832		Yes	0.00106	U	No	0.000868	U	No	0.0126	U	No		C156		0.0126
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.0838		Yes	0.00118	U	No	0.000964	U	No	0.0144	U	No		C156		0.0111

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	PCB-158 ng/l Qual	PCB-158 ng/l Detect	PCB-159 ng/l Value	PCB-159 ng/l Qual	PCB-159 ng/l Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	J	Yes	0.00144	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	Z	Yes	0.000744	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	Z	Yes	0.00223	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	J	Yes	0.00196	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	J	Yes	0.000967	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	Z	Yes	0.00077	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	Z	Yes	0.0025	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	J	Yes	0.00216	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	J	Yes	0.00118	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	J	Yes	0.00127	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	U	No	0.000849	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	Z	Yes	0.00094	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	J	Yes	0.00155	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	J	Yes	0.00353	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS		Yes	0.00271	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	J	Yes	0.00317	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	J	Yes	0.000818	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	J	Yes	0.000881	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-160			PCB-161			PCB-162			PCB-163			PCB-164			PCB-165	
													ng/l			ng/l			ng/l			ng/l			ng/l			ng/l	
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS		C129		0.00143	U	No	0.00142	U	No		C129		0.0133	J	Yes	0.00157	U
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS		C129		0.00074	U	No	0.000735	U	No		C129		0.0025	Z	Yes	0.000814	U
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS		C129		0.00221	U	No	0.0022	U	No		C129		0.0057	Z	Yes	0.00243	U
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS		C129		0.000809	U	No	0.000803	U	No		C129		0.0117	Z	Yes	0.000889	U
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS		C129		0.000962	U	No	0.000955	U	No		C129		0.00415	J	Yes	0.00106	U
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS		C129		0.000766	U	No	0.000761	U	No		C129		0.00923	J	Yes	0.000842	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS		C129		0.00129	U	No	0.00128	U	No		C129		0.0182	Z	Yes	0.00142	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS		C129		0.000909	U	No	0.000903	U	No		C129		0.0173	J	Yes	0.001	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS		C129		0.00117	U	No	0.00116	U	No		C129		0.0129	J	Yes	0.00129	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS		C129		0.00126	U	No	0.00126	U	No		C129		0.00528	J	Yes	0.00139	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS		C129		0.000844	U	No	0.000838	U	No		C129		0.000883	U	No	0.000928	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS		C129		0.000935	U	No	0.000928	U	No		C129		0.00165	J	Yes	0.00103	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS		C129		0.00154	U	No	0.00153	U	No		C129		0.0109	J	Yes	0.00169	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS		C129		0.00133	U	No	0.00132	U	No		C129		0.0216	J	Yes	0.00146	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS		C129		0.000855	U	No	0.00233	J	Yes		C129		0.03	J	Yes	0.00094	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS		C129		0.000994	U	No	0.00198	Z	Yes		C129		0.0229	J	Yes	0.00109	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS		C129		0.000814	U	No	0.000808	U	No		C129		0.00831	J	Yes	0.000895	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS		C129		0.000876	U	No	0.00087	U	No		C129		0.00726	J	Yes	0.000963	U

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-166		
													ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	No		C128	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	No		C128	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	No		C128	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	No		C128	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	No		C128	
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	No		C128	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	No		C128	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	No		C128	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	No		C128	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	No		C128	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	No		C128	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	No		C128	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	No		C128	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	No		C128	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	No		C128	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	No		C128	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	No		C128	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	No		C128	

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-167			PCB-168			PCB-169			PCB-170			PCB-171			
													ng/l			ng/l			ng/l			ng/l			ng/l			
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00733	J	Yes		C153		0.00117	U	No	0.0384	J	Yes	0.0113	J	Yes	0.00531
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00045	U	No		C153		0.000898	U	No	0.00411	J	Yes	0.000866	U	No	0.000857
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00197	Z	Yes		C153		0.00193	U	No	0.00967	J	Yes	0.00214	U	No	0.00212
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.00737	J	Yes		C153		0.000617	U	No	0.0352	J	Yes	0.00948	J	Yes	0.00557
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00286	J	Yes		C153		0.000928	U	No	0.016	Z	Yes	0.00447	Z	Yes	0.00297
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.000564	U	No		C153		0.000564	U	No	0.0245	J	Yes	0.00909	Z	Yes	0.000868
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.0107	J	Yes		C153		0.000942	U	No	0.0629		Yes	0.0159	J	Yes	0.00763
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00999	J	Yes		C153		0.000677	U	No	0.0606		Yes	0.0167	J	Yes	0.00891
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00689	J	Yes		C153		0.000798	U	No	0.0446		Yes	0.0112	J	Yes	0.00483
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00285	Z	Yes		C153		0.000955	U	No	0.0148	J	Yes	0.00433	J	Yes	0.0026
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000618	U	No		C153		0.000592	U	No	0.000936	U	No	0.000959	U	No	0.00095
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00068	U	No		C153		0.000677	U	No	0.00366	Z	Yes	0.00123	U	No	0.00122
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00652	Z	Yes		C153		0.00105	U	No	0.0397	Z	Yes	0.0142	J	Yes	0.00723
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.0131	J	Yes		C153		0.000879	U	No	0.0719		Yes	0.0215	J	Yes	0.0143
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.0193	J	Yes		C153		0.00172	U	No	0.0874		Yes	0.0262	J	Yes	0.0167
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.0149	J	Yes		C153		0.000689	U	No	0.0665		Yes	0.0248	J	Yes	0.0129
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00399	U	No		C153		0.000614	U	No	0.0227	Z	Yes	0.008	J	Yes	0.00355
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.00474	U	No		C153		0.000668	U	No	0.0241	J	Yes	0.00803	J	Yes	0.00438

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-172		PCB-173		
													ng/l				
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	J	Yes		C171	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	U	No		C171	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	U	No		C171	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	Z	Yes		C171	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	Z	Yes		C171	
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	U	No		C171	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	J	Yes		C171	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	Z	Yes		C171	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	Z	Yes		C171	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	J	Yes		C171	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	U	No		C171	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	U	No		C171	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	Z	Yes		C171	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	J	Yes		C171	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	J	Yes		C171	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	J	Yes		C171	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	Z	Yes		C171	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	J	Yes		C171	

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-174			PCB-175			PCB-176			PCB-177			PCB-178		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.0419	J	Yes	0.00136	U	No	0.00411	J	Yes	0.0223	J	Yes	0.00867	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00545	J	Yes	0.000771	U	No	0.000587	U	No	0.00222	Z	Yes	0.00179	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0157	J	Yes	0.00191	U	No	0.00145	U	No	0.00936	J	Yes	0.00206	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.0322	Z	Yes	0.000833	U	No	0.00381	Z	Yes	0.0197	J	Yes	0.00793	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.0182	J	Yes	0.00095	U	No	0.00208	Z	Yes	0.0111	J	Yes	0.00261	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.0283	J	Yes	0.00125	Z	Yes	0.00321	Z	Yes	0.0152	J	Yes	0.0061	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.0684		Yes	0.00123	U	No	0.0064	Z	Yes	0.0346	J	Yes	0.0123	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.0592		Yes	0.00183	Z	Yes	0.00623	J	Yes	0.0329	J	Yes	0.0102	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.0446		Yes	0.00116	U	No	0.00253	Z	Yes	0.0221	J	Yes	0.00613	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.0151	J	Yes	0.00105	U	No	0.000799	U	No	0.00795	J	Yes	0.00355	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000889	U	No	0.000854	U	No	0.00065	U	No	0.000911	U	No	0.000923	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.0049	J	Yes	0.00109	U	No	0.000834	U	No	0.00286	Z	Yes	0.00118	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.037	J	Yes	0.00173	U	No	0.00132	U	No	0.0238	J	Yes	0.00688	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.0695		Yes	0.00317	J	Yes	0.00775	J	Yes	0.0382	Z	Yes	0.0133	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.0841		Yes	0.00367	J	Yes	0.0103	J	Yes	0.0497		Yes	0.02	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.0789		Yes	0.00164	Z	Yes	0.00915	J	Yes	0.0421		Yes	0.017	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.0232	J	Yes	0.000926	U	No	0.00306	J	Yes	0.014	J	Yes	0.00603	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.0234	J	Yes	0.00103	U	No	0.00256	Z	Yes	0.015	J	Yes	0.00546	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-179			PCB-180		
													ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.0175	J	Yes	0.0919		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00209	Z	Yes	0.0105	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00762	Z	Yes	0.02	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.0167	Z	Yes	0.0694		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00508	Z	Yes	0.0429		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.0117	Z	Yes	0.0594		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.0252	J	Yes	0.142		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.0263	J	Yes	0.126		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.0161	J	Yes	0.0969		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.0061	J	Yes	0.0397		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000686	U	No	0.000725	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00222	J	Yes	0.0133	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.0179	J	Yes	0.101		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.0321	J	Yes	0.155		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.0389		Yes	0.194		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.0307	J	Yes	0.157		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00983	J	Yes	0.0504		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.0102	J	Yes	0.0516		Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-181			PCB-182			PCB-183			PCB-184			PCB-185			
													ng/l			ng/l			ng/l			ng/l			ng/l			
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00136	U	No	0.00132	U	No	0.0296		Yes	0.00112	U	No		C183		0.00109
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00077	U	No	0.000748	U	No	0.00226	Z	Yes	0.000636	U	No		C183		0.000617
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00191	U	No	0.00185	U	No	0.00863	Z	Yes	0.00157	U	No		C183		0.00153
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.000832	U	No	0.000809	U	No	0.0267	J	Yes	0.000687	U	No		C183		0.000667
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00095	U	No	0.000923	U	No	0.00968	J	Yes	0.000784	U	No		C183		0.000761
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.000779	U	No	0.000757	U	No	0.0199	J	Yes	0.000643	U	No		C183		0.000625
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.00123	U	No	0.00119	U	No	0.0468		Yes	0.00101	U	No		C183		0.000982
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.000835	U	No	0.000812	U	No	0.0403		Yes	0.000689	U	No		C183		0.000669
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00116	U	No	0.00113	U	No	0.027	J	Yes	0.000957	U	No		C183		0.000929
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00105	U	No	0.00102	U	No	0.0103	J	Yes	0.000865	U	No		C183		0.000839
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000853	U	No	0.000829	U	No	0.000847	U	No	0.000704	U	No		C183		0.000684
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00109	U	No	0.00106	U	No	0.00223	Z	Yes	0.000903	U	No		C183		0.000877
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00173	U	No	0.00168	U	No	0.0312	J	Yes	0.00142	U	No		C183		0.00138
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00132	U	No	0.00128	U	No	0.0532		Yes	0.00181	Z	Yes		C183		0.00106
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.000761	U	No	0.00074	U	No	0.0592		Yes	0.000628	U	No		C183		0.00061
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.00107	U	No	0.00104	U	No	0.0399	Z	Yes	0.000882	U	No		C183		0.000856
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.000926	U	No	0.0009	U	No	0.016	J	Yes	0.000764	U	No		C183		0.000742
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.00103	U	No	0.000999	U	No	0.0151	J	Yes	0.000848	U	No		C183		0.000823

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-186		PCB-187		
													ng/l		ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	U	No	0.0512	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	U	No	0.00699	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	U	No	0.0165	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	U	No	0.0535		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	U	No	0.024	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	U	No	0.0325	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	U	No	0.0829		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	U	No	0.0772		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	U	No	0.0535		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	U	No	0.0223	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	U	No	0.000793	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	U	No	0.00666	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	U	No	0.0577		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	U	No	0.0949		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	U	No	0.113		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	U	No	0.0956		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	U	No	0.0302	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	U	No	0.0341	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-188			PCB-189			PCB-190			PCB-191			PCB-192			
													ng/l			ng/l			ng/l			ng/l			ng/l			
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.000943	U	No	0.00183	J	Yes	0.0067	J	Yes	0.00103	U	No	0.00116	U	No	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.000506	U	No	0.000629	U	No	0.000872	J	Yes	0.000586	U	No	0.000655	U	No	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00113	U	No	0.00276	U	No	0.00148	U	No	0.00145	U	No	0.00162	U	No	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.000567	U	No	0.000644	U	No	0.00607	J	Yes	0.00155	Z	Yes	0.000708	U	No	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.000674	U	No	0.000483	U	No	0.000736	U	No	0.000723	U	No	0.000808	U	No	
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.000571	U	No	0.000437	U	No	0.00396	Z	Yes	0.000594	U	No	0.000663	U	No	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.000864	U	No	0.00207	J	Yes	0.0103	Z	Yes	0.000933	U	No	0.00104	U	No	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.000591	U	No	0.00222	J	Yes	0.00928	J	Yes	0.00187	J	Yes	0.00071	U	No	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.000822	U	No	0.000954	U	No	0.00862	J	Yes	0.000883	U	No	0.000986	U	No	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.000767	U	No	0.000846	U	No	0.00268	Z	Yes	0.000798	U	No	0.000891	U	No	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000633	U	No	0.000533	U	No	0.000661	U	No	0.00065	U	No	0.000726	U	No	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.000806	U	No	0.00069	U	No	0.000848	U	No	0.000833	U	No	0.000931	U	No	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00129	U	No	0.000948	U	No	0.00582	Z	Yes	0.00131	U	No	0.00147	U	No	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00101	U	No	0.00338	U	No	0.0148	U	No	0.00303	U	No	0.00112	U	No	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.000558	U	No	0.00369	U	No	0.0198	J	Yes	0.00373	Z	Yes	0.000647	U	No	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.000787	U	No	0.00116	U	No	0.0147	U	No	0.00382	U	No	0.000909	U	No	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.000674	U	No	0.000616	U	No	0.00399	U	No	0.000705	U	No	0.000787	U	No	
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.000759	U	No	0.000679	U	No	0.00543	U	No	0.000782	U	No	0.000874	U	No	

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-193		PCB-194		
													ng/l		ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	C180		0.0265	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	C180		0.00325	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	C180		0.00915	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	C180		0.0171	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	C180		0.00917	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	C180		0.0124	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	C180		0.0462		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	C180		0.0316	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	C180		0.0259	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	C180		0.0118	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	C180		0.000747	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	C180		0.00404	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	C180		0.0212	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	C180		0.0547		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	C180		0.0581		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	C180		0.0448		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	C180		0.0135	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	C180		0.0157	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-195			PCB-196			PCB-197			PCB-198			PCB-199			
													ng/l			ng/l			ng/l			ng/l			ng/l			
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.0091	J	Yes	0.0109	J	Yes	0.00102	U	No	0.0313		Yes		C198		0.00222
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.000827	U	No	0.000831	U	No	0.000618	U	No	0.000858	U	No		C198		0.000607
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00341	U	No	0.00401	Z	Yes	0.00155	U	No	0.0116	J	Yes		C198		0.00152
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.00904	J	Yes	0.00832	Z	Yes	0.000465	U	No	0.0291	Z	Yes		C198		0.00302
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00271	Z	Yes	0.0053	J	Yes	0.000906	U	No	0.0165	J	Yes		C198		0.000889
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00549	Z	Yes	0.00678	Z	Yes	0.000451	U	No	0.0233	J	Yes		C198		0.00136
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.0191	J	Yes	0.0153	J	Yes	0.000958	U	No	0.0458		Yes		C198		0.00357
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.0109	J	Yes	0.0166	J	Yes	0.000942	Z	Yes	0.0417		Yes		C198		0.0025
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.0103	J	Yes	0.0106	J	Yes	0.000917	U	No	0.0319	J	Yes		C198		0.00197
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.0021	U	No	0.00539	J	Yes	0.000876	U	No	0.0157	J	Yes		C198		0.00086
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000811	U	No	0.000808	U	No	0.000601	U	No	0.000834	U	No		C198		0.00059
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00145	Z	Yes	0.00101	U	No	0.000749	U	No	0.00366	Z	Yes		C198		0.000735
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.0115	J	Yes	0.00944	Z	Yes	0.00171	U	No	0.0386		Yes		C198		0.0036
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.0178	J	Yes	0.0278	J	Yes	0.000825	U	No	0.0682		Yes		C198		0.00623
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.0202	J	Yes	0.0258	J	Yes	0.00243	Z	Yes	0.0784		Yes		C198		0.00761
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.0152	Z	Yes	0.0224	J	Yes	0.000859	U	No	0.0645		Yes		C198		0.00639
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00565	Z	Yes	0.00619	Z	Yes	0.000774	U	No	0.0204	Z	Yes		C198		0.00076
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.000958	U	No	0.0054	Z	Yes	0.000756	U	No	0.0193	J	Yes		C198		0.000742

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	PCB-200 ng/l Qual	PCB-200 ng/l Detect	PCB-201 ng/l Value	PCB-201 ng/l Qual	PCB-201 ng/l Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	J	Yes	0.0025	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	U	No	0.000586	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	U	No	0.00147	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	Z	Yes	0.00321	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	U	No	0.000858	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	Z	Yes	0.00137	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	Z	Yes	0.00431	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	Z	Yes	0.00326	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	Z	Yes	0.00305	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	U	No	0.00083	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	U	No	0.00057	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	U	No	0.000709	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	J	Yes	0.00316	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	J	Yes	0.00713	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	J	Yes	0.00711	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	Z	Yes	0.00638	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	U	No	0.0021	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	U	No	0.00208	Z	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-202			PCB-203			PCB-204			PCB-205			PCB-206		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00843	J	Yes	0.0199	J	Yes	0.00106	U	No	0.00122	U	No	0.0264	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00066	U	No	0.000766	U	No	0.000643	U	No	0.000642	U	No	0.00315	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0058	J	Yes	0.00712	J	Yes	0.00161	U	No	0.00265	U	No	0.00535	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.0108	J	Yes	0.0173	J	Yes	0.000483	U	No	0.00121	Z	Yes	0.0282	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00312	Z	Yes	0.00861	J	Yes	0.000941	U	No	0.000641	U	No	0.0111	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00406	Z	Yes	0.0132	J	Yes	0.000469	U	No	0.000535	Z	Yes	0.0184	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.00967	J	Yes	0.0235	J	Yes	0.000995	U	No	0.00222	Z	Yes	0.0296	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.0099	J	Yes	0.0229	J	Yes	0.000693	U	No	0.002	Z	Yes	0.0346	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00623	Z	Yes	0.018	J	Yes	0.000953	U	No	0.00216	Z	Yes	0.0178	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00369	J	Yes	0.00879	J	Yes	0.00091	U	No	0.00163	U	No	0.0113	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000642	U	No	0.000745	U	No	0.000625	U	No	0.000629	U	No	0.000868	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.000799	U	No	0.00296	J	Yes	0.000778	U	No	0.000771	U	No	0.00343	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.011	J	Yes	0.0224	J	Yes	0.00177	U	No	0.00142	U	No	0.0282	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.0158	J	Yes	0.0443		Yes	0.000858	U	No	0.00534	U	No	0.0604		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.0195	J	Yes	0.0478		Yes	0.000594	U	No	0.00291	U	No	0.0529		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.0141	Z	Yes	0.0389		Yes	0.000892	U	No	0.00275	U	No	0.0397		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00518	J	Yes	0.0136	Z	Yes	0.000805	U	No	0.000791	U	No	0.0199	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.00393	Z	Yes	0.0124	J	Yes	0.000786	U	No	0.000744	U	No	0.0161	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB-207			PCB-208		
													ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00147	U	No	0.00904	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.000943	U	No	0.000929	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00305	U	No	0.0028	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.00238	Z	Yes	0.0115	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00122	U	No	0.00554	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.000436	U	No	0.00819	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.00228	Z	Yes	0.00917	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00228	Z	Yes	0.0121	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.000962	U	No	0.00614	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00119	U	No	0.00412	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000639	U	No	0.000681	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00104	U	No	0.00108	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00148	U	No	0.0118	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00587	J	Yes	0.0209	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.00505	Z	Yes	0.0204	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.00372	Z	Yes	0.0148	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00147	Z	Yes	0.00833	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.00299	J	Yes	0.00701	Z	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													Decachlorobiphenyl			Total PCB Congeners			Total PCB Congeners (ND=0.5DL)			Total PCB Congeners (ND=DL)			PCB TEQ-Bird		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.0219	J	Yes	4.62	J	Yes	4.67	J	Yes	4.73	J	Yes	0.000551	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00148	U	No	0.897	J	Yes	0.949	J	Yes	1	J	Yes	0.0000878	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0242	Z	Yes	2.37	J	Yes	2.45	J	Yes	2.54	J	Yes	0.000402	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.029	J	Yes	4.81	J	Yes	4.87	J	Yes	4.92	J	Yes	0.000654	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.01	J	Yes	1.88	J	Yes	1.95	J	Yes	2.02	J	Yes	0.000249	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.0258	Z	Yes	4.29	J	Yes	4.36	J	Yes	4.42	J	Yes	0.000601	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.0199	J	Yes	5.43	J	Yes	5.46	J	Yes	5.49	J	Yes	0.000838	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.0335	J	Yes	4.55	J	Yes	4.61	J	Yes	4.67	J	Yes	0.000769	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.0165	Z	Yes	4.16	J	Yes	4.19	J	Yes	4.22	J	Yes	0.000671	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00805	Z	Yes	1.94	J	Yes	1.99	J	Yes	2.05	J	Yes	0.000286	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000885	U	No	0.00625	U	No	0.00625	U	No	0.00625	U	No	0.0000656	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00381	J	Yes	0.681	J	Yes	0.75	J	Yes	0.819	J	Yes	0.0000641	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.0222	Z	Yes	4.24	J	Yes	4.31	J	Yes	4.39	J	Yes	0.000614	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.051		Yes	7.06	J	Yes	7.14	J	Yes	7.21	J	Yes	0.00122	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.0562		Yes	11.1	J	Yes	11.1	J	Yes	11.1	J	Yes	0.00231	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.036	J	Yes	6.75	J	Yes	6.81	J	Yes	6.87	J	Yes	0.000834	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.0177	Z	Yes	2.72	J	Yes	2.77	J	Yes	2.82	J	Yes	0.000551		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.0164	J	Yes	2.71	J	Yes	2.76	J	Yes	2.81	J	Yes	0.000403	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	PCB TEQ-Bird (ND=0.5DL) ng/l			PCB TEQ-Bird (ND=DL) ng/l		
													Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.000656	J	Yes	0.000761	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.000131	J	Yes	0.000175	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.000531	J	Yes	0.00066	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.000717	J	Yes	0.000779	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.000308	J	Yes	0.000367	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.000665	J	Yes	0.000729	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.000874	J	Yes	0.000911	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00077	J	Yes	0.00077	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.000745	J	Yes	0.000819	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00037	J	Yes	0.000453	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.0000813	U	No	0.000163	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.000142	J	Yes	0.000221	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.000727	J	Yes	0.00084	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00134	J	Yes	0.00146	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.00231	J	Yes	0.00231	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.00096	J	Yes	0.00109	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.000588		Yes	0.000626		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.000482	J	Yes	0.000561	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	PCB TEQ-Bird (KM) ng/l			PCB TEQ-Fish ng/l			PCB TEQ-Fish (ND=0.5DL) ng/l			PCB TEQ-Fish (ND=DL) ng/l			PCB TEQ-Fish (K ng/l	
													Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.000554	J	Yes	0.00000238	J	Yes	0.00000531	J	Yes	0.00000825	J	Yes	0.00000746	J
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.0000883	J	Yes	0.000000332	J	Yes	0.00000153	J	Yes	0.00000272	J	Yes	0.00000229	J
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.000403	J	Yes	0.00000113	J	Yes	0.00000504	J	Yes	0.00000896	J	Yes	0.00000765	J
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.000657	J	Yes	0.00000237	J	Yes	0.00000403	J	Yes	0.00000569	J	Yes	0.00000495	J
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.000251	J	Yes	0.000000973	J	Yes	0.00000241	J	Yes	0.00000384	J	Yes	0.00000323	J
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.000602	J	Yes	0.00000189	J	Yes	0.00000348	J	Yes	0.00000507	J	Yes	0.0000043	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.000839	J	Yes	0.00000985	J	Yes	0.0000101	J	Yes	0.0000103	J	Yes	0.00000991	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.000769	J	Yes	0.00000767	J	Yes	0.00000769	J	Yes	0.0000077	J	Yes	0.00000769	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.000674	J	Yes	0.00000261	J	Yes	0.00000478	J	Yes	0.00000696	J	Yes	0.00000607	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.000288	J	Yes	0.00000117	J	Yes	0.00000355	J	Yes	0.00000593	J	Yes	0.0000051	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.0000656	U	No	0.00000324	U	No	0.00000184	U	No	0.00000368	U	No	0.00000324	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.000139	J	Yes	0.000000328	J	Yes	0.00000244	J	Yes	0.00000455	J	Yes	0.0000038	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.000617	J	Yes	0.0000023	J	Yes	0.00000547	J	Yes	0.00000865	J	Yes	0.00000744	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00124	J	Yes	0.00000477	J	Yes	0.0000106	J	Yes	0.0000165	J	Yes	0.0000165	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.00231	J	Yes	0.0000241	J	Yes	0.0000242	J	Yes	0.0000242	J	Yes	0.0000242	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.000839	J	Yes	0.0000038	J	Yes	0.00000884	J	Yes	0.0000139	J	Yes	0.0000125	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.000552	J	Yes	0.00000223		Yes	0.00000413		Yes	0.00000602		Yes	0.00000543	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.000405	J	Yes	0.00000146	J	Yes	0.0000038	J	Yes	0.00000613	J	Yes	0.00000521	J

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	M) Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCB TEQ-Mammal			PCB TEQ-Mammal (ND=0.5DL)			PCB TEQ-Mammal (ND=DL)			PCB TEQ-Mammal (KM)			Monochlorobiphenyl		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00000886	J	Yes	0.0000795	J	Yes	0.00015	J	Yes	0.000111	J	Yes	0.00998	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00000113	J	Yes	0.0000358	J	Yes	0.0000706	J	Yes	0.00004	J	Yes	0.0139	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00000276	J	Yes	0.000103	J	Yes	0.000204	J	Yes	0.000134	J	Yes	0.0101	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.00000775	J	Yes	0.0000468	J	Yes	0.0000859	J	Yes	0.0000623	J	Yes	0.023	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00000338	J	Yes	0.0000423	J	Yes	0.0000811	J	Yes	0.000049	J	Yes	0.0119	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00000538	J	Yes	0.0000417	J	Yes	0.000078	J	Yes	0.0000562	J	Yes	0.0112	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.00015	J	Yes	0.000165	J	Yes	0.000179	J	Yes	0.000151	J	Yes	0.0075	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.000104	J	Yes	0.000114	J	Yes	0.000124	J	Yes	0.000105	J	Yes	0.0115	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00000905	J	Yes	0.0000608	J	Yes	0.000113	J	Yes	0.0000819	J	Yes	0.00872	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00000422	J	Yes	0.0000617	J	Yes	0.000119	J	Yes	0.0000832	J	Yes	0.0087	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.0000647	U	No	0.0000414	U	No	0.0000829	U	No	0.0000647	U	No	0.000879	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00000134	J	Yes	0.0000494	J	Yes	0.0000974	J	Yes	0.0000706	J	Yes	0.00592	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00000773	J	Yes	0.0000812	J	Yes	0.000155	J	Yes	0.000113	J	Yes	0.0156	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.0000141	J	Yes	0.000144	J	Yes	0.000274	J	Yes	0.000249	J	Yes	0.0157	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.000357	J	Yes	0.000383	J	Yes	0.000409	J	Yes	0.00036	J	Yes	0.0514		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.0000147	J	Yes	0.000123	J	Yes	0.000231	J	Yes	0.000194	J	Yes	0.0156	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00000503		Yes	0.0000513		Yes	0.0000975		Yes	0.0000725	J	Yes	0.01	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.0000048	J	Yes	0.0000569	J	Yes	0.000109	J	Yes	0.0000814	J	Yes	0.015	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													Dichlorobiphenyl			Trichlorobiphenyl		
													ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.257	J	Yes	0.881	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.116	U	No	0.196	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.207	Z	Yes	0.619	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.293	Z	Yes	1.04	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.172	Z	Yes	0.383	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.37	Z	Yes	1.17	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.242	Z	Yes	0.822	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.193	Z	Yes	0.526	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.204	Z	Yes	0.621	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.117	Z	Yes	0.3	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.0114	Z	Yes	0.00673	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.0888	Z	Yes	0.133	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.248	Z	Yes	0.792	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.347	Z	Yes	1.23	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.781	Z	Yes	2.25	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.25	Z	Yes	0.897	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.181	Z	Yes	0.482	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.181	Z	Yes	0.463	Z	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													Tetrachlorobiphenyl			Pentachlorobiphenyl			Hexachlorobiphenyl			Heptachlorobiphenyl			Octachlorobiphenyl		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	1.11	J	Yes	1.1	J	Yes	0.805	J	Yes	0.33	J	Yes	0.111	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.254	Z	Yes	0.174	Z	Yes	0.15	Z	Yes	0.0363	Z	Yes	0.00325	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.741	Z	Yes	0.315	Z	Yes	0.358	Z	Yes	0.0875	Z	Yes	0.0377	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	1.22	Z	Yes	1.05	Z	Yes	0.808	Z	Yes	0.288	Z	Yes	0.0992	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.44	Z	Yes	0.43	Z	Yes	0.318	Z	Yes	0.139	Z	Yes	0.0454	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	1.16	Z	Yes	0.807	Z	Yes	0.531	Z	Yes	0.215	Z	Yes	0.0684	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	1.22	Z	Yes	1.22	Z	Yes	1.2	Z	Yes	0.518	Z	Yes	0.17	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.844	Z	Yes	1.24	Z	Yes	1.12	Z	Yes	0.48	Z	Yes	0.142	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.96	Z	Yes	1.09	Z	Yes	0.8	Z	Yes	0.338	Z	Yes	0.11	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.462	Z	Yes	0.505	Z	Yes	0.391	Z	Yes	0.129	Z	Yes	0.0454	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00573	Z	Yes	0.00159	Z	Yes	0.00206	J	Yes	0.0164	U	No	0.0076	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.168	Z	Yes	0.166	Z	Yes	0.115	Z	Yes	0.0358	Z	Yes	0.0121	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.981	Z	Yes	0.993	Z	Yes	0.742	Z	Yes	0.343	Z	Yes	0.121	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	1.56	Z	Yes	1.72	Z	Yes	1.32	Z	Yes	0.598	Z	Yes	0.247		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	2.45	Z	Yes	2.59	Z	Yes	1.86	Z	Yes	0.731	Z	Yes	0.27	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	1.36	Z	Yes	1.98	Z	Yes	1.42	Z	Yes	0.596	Z	Yes	0.215	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.628	Z	Yes	0.7	Z	Yes	0.466	Z	Yes	0.191	Z	Yes	0.0666	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.642	Z	Yes	0.69	Z	Yes	0.465	Z	Yes	0.199	Z	Yes	0.0589	Z	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Nonachlorobiphenyl ng/l		
													Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.0354	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00315	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0112	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.0421	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.0167	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.0266	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.041	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.049	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.024	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.0154	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00219	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00343	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.04	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.0872		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.0784	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.0582	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.0297	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.0261	Z	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													1,2,3,4,6,7,8-HpCDD			1,2,3,4,7,8-HxCDD			1,2,3,6,7,8-HxCDD			1,2,3,7,8,9-HxCDD		
													ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.0126	J	Yes	0.000936	U	No	0.00092	U	No	0.00146	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00211	Z	Yes	0.000963	U	No	0.000894	J	Yes	0.000724	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00263	J	Yes	0.000984	U	No	0.000939	U	No	0.000563	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.00961	J	Yes	0.000578	Z	Yes	0.000796	J	Yes	0.00176	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00213	Z	Yes	0.00204	U	No	0.00202	UJ	No	0.00195	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00355	U	No	0.00116	U	No	0.00131	U	No	0.0014	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.0269		Yes	0.00132	U	No	0.00121	U	No	0.00158	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.0132	J	Yes	0.000928	U	No	0.00094	U	No	0.00605	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.0209	J	Yes	0.000805	U	No	0.000839	U	No	0.00747	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00965	J	Yes	0.000669	U	No	0.00066	U	No	0.00117	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00294	J	Yes	0.000931	U	No	0.000862	U	No	0.000944	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00241	J	Yes	0.00103	U	No	0.000941	U	No	0.00104	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.0171	J	Yes	0.00178	U	No	0.00172	U	No	0.00194	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.0107	J	Yes	0.000724	U	No	0.000776	U	No	0.00105	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.0317		Yes	0.00131	U	No	0.0014	U	No	0.00156	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.0196	J	Yes	0.000585	U	No	0.000831	J	Yes	0.00129	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00813	Z	Yes	0.00109	U	No	0.00119	U	No	0.0013	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.00666	U	No	0.000716	U	No	0.000829	U	No	0.00114	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													1,2,3,7,8-PeCDD			2,3,7,8-TCDD			OCDD			1,2,3,4,6,7,8-HpCDF			1,2,3,4,7,8,9-HpCDF		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00129	U	No	0.00116	U	No	0.222		Yes	0.00559	J	Yes	0.00155	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00104	U	No	0.000879	U	No	0.0217	J	Yes	0.00199	Z	Yes	0.000967	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00112	U	No	0.000931	U	No	0.0265	J	Yes	0.000585	Z	Yes	0.000868	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.000414	Z	Yes	0.000717	U	No	0.13		Yes	0.00414	J	Yes	0.000679	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00152	U	No	0.00179	U	No	0.0354	J	Yes	0.00166	U	No	0.00178	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00111	U	No	0.000712	U	No	0.0307	U	No	0.00229	U	No	0.000897	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.00116	U	No	0.00165	U	No	0.235		Yes	0.013	J	Yes	0.00104	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00102	U	No	0.000955	U	No	0.126		Yes	0.00628	Z	Yes	0.000626	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.000932	U	No	0.00114	U	No	0.211		Yes	0.0105	J	Yes	0.000771	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.000724	U	No	0.000962	U	No	0.112		Yes	0.00358	J	Yes	0.000687	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000807	U	No	0.000896	U	No	0.0356	J	Yes	0.000605	U	No	0.000761	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00102	U	No	0.00116	U	No	0.036	J	Yes	0.00116	J	Yes	0.00103	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00237	U	No	0.00208	U	No	0.182		Yes	0.00489	J	Yes	0.00226	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.000594	U	No	0.00422	Z	Yes	0.107		Yes	0.00863	J	Yes	0.000483	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.00146	U	No	0.00112	U	No	0.387		Yes	0.0147	J	Yes	0.00163	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.000807	U	No	0.000671	U	No	0.27		Yes	0.00629	J	Yes	0.000549	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00124	U	No	0.00151	U	No	0.109		Yes	0.00339	J	Yes	0.00151	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.000959	U	No	0.000971	U	No	0.0671		Yes	0.00348	J	Yes	0.00101	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	1,2,3,4,7,8-HxCDF		
													ng/l		
													Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.000607	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.000778	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00074	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.000816	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00137	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.000943	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.000955	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00054	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.000746	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.000603	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000561	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.000807	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00107	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00159	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.00107	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.000548	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00058	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.000594	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													1,2,3,6,7,8-HxCDF			1,2,3,7,8,9-HxCDF			1,2,3,7,8-PeCDF			2,3,4,6,7,8-HxCDF			2,3,4,7,8-PeCDF		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.000563	U	No	0.000809	U	No	0.000885	U	No	0.00059	U	No	0.000742	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.000711	J	Yes	0.000995	U	No	0.000784	U	No	0.000874	J	Yes	0.000712	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.000684	U	No	0.000861	U	No	0.000762	U	No	0.000657	U	No	0.000696	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.000556	J	Yes	0.000693	Z	Yes	0.000481	J	Yes	0.000749	J	Yes	0.000756	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00137	U	No	0.00141	U	No	0.0015	U	No	0.00143	U	No	0.00133	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00059	U	No	0.000772	U	No	0.000715	U	No	0.000745	U	No	0.000865	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.000869	U	No	0.00116	U	No	0.000868	U	No	0.000977	U	No	0.000865	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.000555	U	No	0.000599	U	No	0.000767	U	No	0.000562	U	No	0.000743	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.000676	U	No	0.000784	U	No	0.000714	U	No	0.000698	U	No	0.000633	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.000586	U	No	0.000628	U	No	0.000564	U	No	0.000579	U	No	0.000522	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.0005	U	No	0.000646	U	No	0.000575	U	No	0.000557	U	No	0.000493	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.000703	U	No	0.000838	U	No	0.000746	U	No	0.000803	U	No	0.000749	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00101	U	No	0.00145	U	No	0.00163	U	No	0.0011	U	No	0.00142	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.000519	Z	Yes	0.0006	U	No	0.000497	U	No	0.000445	U	No	0.000483	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.00113	U	No	0.00155	U	No	0.000922	U	No	0.00122	U	No	0.000937	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.000466	Z	Yes	0.000522	U	No	0.000441	U	No	0.000495	Z	Yes	0.000412	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00056	U	No	0.000947	U	No	0.000926	U	No	0.000628	U	No	0.000928	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.000556	U	No	0.000827	U	No	0.000732	U	No	0.000893	J	Yes	0.000685	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	2,3,7,8-TCDF ng/l Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.000973	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.000628	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.000788	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.000481	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00146	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.000612	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.00119	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.000975	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.000753	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.000742	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000691	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.000805	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00152	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.000353	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.00125	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.000407	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.000892	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.000567	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													OCDF			PCDD TEQ-Bird			PCDD TEQ-Bird (ND=0.5DL)			PCDD TEQ-Bird (ND=DL)			PCDD TEQ-Fish		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.0147	J	Yes	0.000181	J	Yes	0.00143	J	Yes	0.00269	J	Yes	0.0000493	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00374	Z	Yes	0.0000856	J	Yes	0.00107	J	Yes	0.00205	J	Yes	0.0000205	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00187	U	No	0.0000616	J	Yes	0.00112	J	Yes	0.00217	J	Yes	0.0000109	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.0103	J	Yes	0.000473	J	Yes	0.00092	J	Yes	0.00137	J	Yes	0.000734	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00331	Z	Yes	0.00000567	J	Yes	0.00182	J	Yes	0.00363	J	Yes	0.00000567	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00401	U	No	0.00111	U	No	0.00102	U	No	0.00204	U	No	0.00111	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.029	J	Yes	0.0000504		Yes	0.00157		Yes	0.0031		Yes	0.0000504		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.0144	J	Yes	0.0000258	J	Yes	0.00134	J	Yes	0.00266	J	Yes	0.0000258	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.0217	J	Yes	0.000042	J	Yes	0.00148	J	Yes	0.00291	J	Yes	0.000042	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00717	J	Yes	0.0000209	J	Yes	0.000942	J	Yes	0.00186	J	Yes	0.0000209	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00207	J	Yes	0.0000065	J	Yes	0.000933	J	Yes	0.00186	J	Yes	0.0000065	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.0015	U	No	0.00000601	J	Yes	0.00118	J	Yes	0.00235	J	Yes	0.00000601	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00942	J	Yes	0.0000353	J	Yes	0.00241	J	Yes	0.00479	J	Yes	0.0000353	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.0154	J	Yes	0.00424	J	Yes	0.00461	J	Yes	0.00498	J	Yes	0.00424	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.0341	J	Yes	0.0000704		Yes	0.00148		Yes	0.00289		Yes	0.0000704		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.0135	Z	Yes	0.0000549	J	Yes	0.000873	J	Yes	0.00169	J	Yes	0.0000549	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00823	J	Yes	0.000019		Yes	0.00149		Yes	0.00297		Yes	0.000019		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.00567	J	Yes	0.00000671		Yes	0.00105		Yes	0.0021		Yes	0.00000671		Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	PCDD TEQ-Fish (ND=0.5DL) ng/l			PCDD TEQ-Fish (ND=DL) ng/l		
													Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00151	J	Yes	0.00298	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00122	J	Yes	0.00242	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00129	J	Yes	0.00256	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.0011	J	Yes	0.00147	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00219	J	Yes	0.00438	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00122	U	No	0.00244	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.0018		Yes	0.00355		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00128	J	Yes	0.00253	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00132	J	Yes	0.0026	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00104	J	Yes	0.00206	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.0011	J	Yes	0.00219	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00136	J	Yes	0.00272	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00272	J	Yes	0.00541	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00473	J	Yes	0.00522	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.0017		Yes	0.00334		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.000947	J	Yes	0.00184	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00168		Yes	0.00334		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.00116		Yes	0.00232		Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	PCDD TEQ-Mammal ng/l			PCDD TEQ-Mammal (ND=0.5DL) ng/l			PCDD TEQ-Mammal (ND=DL) ng/l			PCDF TEQ-Bird ng/l			PCDF TEQ-Bird (ND=0.5DL) ng/l		
													Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.000338	J	Yes	0.00166	J	Yes	0.00297	J	Yes	0.0000573	J	Yes	0.0011	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.000189	J	Yes	0.0012	J	Yes	0.0022	J	Yes	0.000179	J	Yes	0.000981	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0000906	J	Yes	0.00121	J	Yes	0.00233	J	Yes	0.00000585		Yes	0.000937		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.000687	J	Yes	0.00113	J	Yes	0.00158	J	Yes	0.00113	J	Yes	0.00138	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.0000319	J	Yes	0.00199	J	Yes	0.00394	J	Yes	0.000000331		Yes	0.00177		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00111	U	No	0.00113	U	No	0.00225	U	No	0.000865	U	No	0.000943	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.00034		Yes	0.00195		Yes	0.00356		Yes	0.000133	J	Yes	0.00141	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00017	J	Yes	0.00155	J	Yes	0.00294	J	Yes	0.0000642	J	Yes	0.00108	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.000272	J	Yes	0.00176	J	Yes	0.00326	J	Yes	0.000107	J	Yes	0.000985	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00013	J	Yes	0.0011	J	Yes	0.00207	J	Yes	0.0000365	J	Yes	0.00082	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.0000401	J	Yes	0.00103	J	Yes	0.00202	J	Yes	0.000000207	J	Yes	0.000741	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.0000349	J	Yes	0.00128	J	Yes	0.00252	J	Yes	0.0000116	J	Yes	0.000989	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.000226	J	Yes	0.00272	J	Yes	0.00522	J	Yes	0.0000498	J	Yes	0.00184	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00436	J	Yes	0.00478	J	Yes	0.00521	J	Yes	0.000299	J	Yes	0.000796	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.000433		Yes	0.00194		Yes	0.00344		Yes	0.00015	J	Yes	0.00155	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.00036	J	Yes	0.00119	J	Yes	0.00203	J	Yes	0.000215	J	Yes	0.000676	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.000114		Yes	0.00167		Yes	0.00322		Yes	0.0000347	J	Yes	0.00113	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.0000201		Yes	0.00115		Yes	0.00229		Yes	0.000125	J	Yes	0.000891	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	PCDF TEQ-Bird (ND=DL) ng/l Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00213	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00178	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00187		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.00162	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00353		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00189	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.00268	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00209	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00186	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.0016	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00148	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00197	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00364	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00129	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.00294	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.00114	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00223	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.00166	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													PCDF TEQ-Fish			PCDF TEQ-Fish (ND=0.5DL)			PCDF TEQ-Fish (ND=DL)			PCDF TEQ-Mammal			PCDF TEQ-Mammal (N	
													ng/l			ng/l			ng/l			ng/l			ng/l	
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.0000573	J	Yes	0.000426	J	Yes	0.000794	J	Yes	0.0000603	J	Yes	0.00037	J
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.000179	J	Yes	0.000486	J	Yes	0.000792	J	Yes	0.00018	J	Yes	0.000423	J
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00000585		Yes	0.00037		Yes	0.000734		Yes	0.00000585		Yes	0.000313	
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.000733	J	Yes	0.000745	J	Yes	0.000757	J	Yes	0.000574	J	Yes	0.000598	J
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.000000331		Yes	0.000703		Yes	0.00141		Yes	0.000000993		Yes	0.000592	
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.000433	U	No	0.000418	U	No	0.000836	U	No	0.00026	U	No	0.00034	U
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.000133	J	Yes	0.000604	J	Yes	0.00107	J	Yes	0.000139	J	Yes	0.000544	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.0000642	J	Yes	0.000409	J	Yes	0.000755	J	Yes	0.0000671	J	Yes	0.000355	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.000107	J	Yes	0.000451	J	Yes	0.000795	J	Yes	0.000112	J	Yes	0.000404	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.0000365	J	Yes	0.000323	J	Yes	0.000609	J	Yes	0.000038	J	Yes	0.000285	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000000207	J	Yes	0.000275	J	Yes	0.00055	J	Yes	0.000000621	J	Yes	0.000238	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.0000116	J	Yes	0.0004	J	Yes	0.000789	J	Yes	0.0000116	J	Yes	0.000338	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.0000498	J	Yes	0.000726	J	Yes	0.0014	J	Yes	0.0000517	J	Yes	0.000608	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.000299	J	Yes	0.000495	J	Yes	0.000692	J	Yes	0.000302	J	Yes	0.000454	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.00015	J	Yes	0.000696	J	Yes	0.00124	J	Yes	0.000157	J	Yes	0.000631	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.000215	J	Yes	0.000368	J	Yes	0.000521	J	Yes	0.000218	J	Yes	0.000335	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.0000347	J	Yes	0.000455	J	Yes	0.000876	J	Yes	0.0000364	J	Yes	0.000377	J
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.000125	J	Yes	0.000432	J	Yes	0.00074	J	Yes	0.000126	J	Yes	0.000372	J

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	ID=0.5DL) Detect	PCDF TEQ-Mammal (ND=DL) ng/l Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	Yes	0.000679	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	Yes	0.000666	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	Yes	0.00062		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	Yes	0.000622	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	Yes	0.00118		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	No	0.00068	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	Yes	0.00095	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	Yes	0.000642	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	Yes	0.000696	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	Yes	0.000532	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	Yes	0.000475	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	Yes	0.000665	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	Yes	0.00116	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	Yes	0.000606	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	Yes	0.0011	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	Yes	0.000453	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	Yes	0.000718	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	Yes	0.000618	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Dioxin TEQ-Bird ng/l			Dioxin TEQ-Bird (ND=0.5DL) ng/l			Dioxin TEQ-Bird (ND=DL) ng/l			Dioxin TEQ-Bird (KM) ng/l			Dioxin TEQ-Fish ng/l		
													Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.000238	J	Yes	0.00253	J	Yes	0.00482	J	Yes	0.00168	J	Yes	0.000107	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.000264	J	Yes	0.00205	J	Yes	0.00384	J	Yes	0.00146	J	Yes	0.000199	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0000674	J	Yes	0.00205	J	Yes	0.00404	J	Yes	0.00119	J	Yes	0.0000168	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.00161	J	Yes	0.0023	J	Yes	0.00298	J	Yes	0.00177	J	Yes	0.00147	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.000006	J	Yes	0.00359	J	Yes	0.00717	J	Yes	0.00182	J	Yes	0.000006	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00111	U	No	0.00196	U	No	0.00393	U	No	0.00111	U	No	0.00111	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.000183	J	Yes	0.00298	J	Yes	0.00578	J	Yes	0.002	J	Yes	0.000183	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00009	J	Yes	0.00242	J	Yes	0.00475	J	Yes	0.0012	J	Yes	0.00009	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.000149	J	Yes	0.00246	J	Yes	0.00477	J	Yes	0.00142	J	Yes	0.000149	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.0000574	J	Yes	0.00176	J	Yes	0.00347	J	Yes	0.00111	J	Yes	0.0000574	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00000671	J	Yes	0.00167	J	Yes	0.00334	J	Yes	0.000932	J	Yes	0.00000671	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.0000176	J	Yes	0.00217	J	Yes	0.00432	J	Yes	0.00114	J	Yes	0.0000176	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.0000851	J	Yes	0.00425	J	Yes	0.00842	J	Yes	0.00265	J	Yes	0.0000851	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00454	J	Yes	0.00541	J	Yes	0.00628	J	Yes	0.00467	J	Yes	0.00454	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.000221	J	Yes	0.00302	J	Yes	0.00583	J	Yes	0.00191	J	Yes	0.000221	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.00027	J	Yes	0.00155	J	Yes	0.00283	J	Yes	0.00123	J	Yes	0.00027	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.0000538	J	Yes	0.00263	J	Yes	0.0052	J	Yes	0.00169	J	Yes	0.0000538	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.000131	J	Yes	0.00195	J	Yes	0.00376	J	Yes	0.00121	J	Yes	0.000131	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Dioxin TEQ-Fish (ND=0.5DL) ng/l		
													Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00194	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00171	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00166	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.00185	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00289	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00164	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.0024	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00169	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00177	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00136	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00137	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00176	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00345	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00522	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.0024	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.00131	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00213	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.0016	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													Dioxin TEQ-Fish (ND=DL)			Dioxin TEQ-Fish (KM)			Dioxin TEQ-Mammal			Dioxin TEQ-Mammal (ND=0.5DL)			Dioxin TEQ-Mammal (ND=DL)		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00377	J	Yes	0.00152	J	Yes	0.000398	J	Yes	0.00203	J	Yes	0.00366	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00321	J	Yes	0.00135	J	Yes	0.000369	J	Yes	0.00162	J	Yes	0.00287	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0033	J	Yes	0.0011	J	Yes	0.0000964	J	Yes	0.00153	J	Yes	0.00295	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.00222	J	Yes	0.0022	J	Yes	0.00126	J	Yes	0.00173	J	Yes	0.0022	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00578	J	Yes	0.00182	J	Yes	0.0000329	J	Yes	0.00258	J	Yes	0.00513	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00327	U	No	0.00111	U	No	0.00111	U	No	0.00147	U	No	0.00293	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.00462	J	Yes	0.00196	J	Yes	0.000478	J	Yes	0.00249	J	Yes	0.00451	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00329	J	Yes	0.00119	J	Yes	0.000237	J	Yes	0.00191	J	Yes	0.00358	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00339	J	Yes	0.00141	J	Yes	0.000384	J	Yes	0.00217	J	Yes	0.00395	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00267	J	Yes	0.0011	J	Yes	0.000168	J	Yes	0.00138	J	Yes	0.0026	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00274	J	Yes	0.000932	J	Yes	0.0000407	J	Yes	0.00127	J	Yes	0.00249	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00351	J	Yes	0.00114	J	Yes	0.0000465	J	Yes	0.00161	J	Yes	0.00318	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00681	J	Yes	0.00264	J	Yes	0.000277	J	Yes	0.00333	J	Yes	0.00638	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00591	J	Yes	0.00465	J	Yes	0.00466	J	Yes	0.00524	J	Yes	0.00581	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.00458	J	Yes	0.00186	J	Yes	0.00059	J	Yes	0.00257	J	Yes	0.00454	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.00236	J	Yes	0.00118	J	Yes	0.000578	J	Yes	0.00153	J	Yes	0.00248	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00422	J	Yes	0.00168	J	Yes	0.00015	J	Yes	0.00205	J	Yes	0.00394	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.00306	J	Yes	0.00118	J	Yes	0.000146	J	Yes	0.00152	J	Yes	0.0029	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													Dioxin TEQ-Mammal (KM)			Total TEQ-Bird			Total TEQ-Bird (ND=0.5DL)			Total TEQ-Bird (ND=DL)			Total TEQ-Bird (KM)		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00189	J	Yes	0.000789	J	Yes	0.00319	J	Yes	0.00558	J	Yes	0.0022	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.0016	J	Yes	0.000352	J	Yes	0.00218	J	Yes	0.00401	J	Yes	0.00143	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00127	J	Yes	0.000469	J	Yes	0.00258	J	Yes	0.0047	J	Yes	0.00163	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.00205	J	Yes	0.00226	J	Yes	0.00301	J	Yes	0.00376	J	Yes	0.00241	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00193	J	Yes	0.000255	J	Yes	0.00389	J	Yes	0.00753	J	Yes	0.00202	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00111	U	No	0.000601	J	Yes	0.00263	J	Yes	0.00465	J	Yes	0.00173	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.00244	J	Yes	0.00102	J	Yes	0.00385	J	Yes	0.00669	J	Yes	0.00286	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00145	J	Yes	0.000859	J	Yes	0.00319	J	Yes	0.00552	J	Yes	0.00206	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00179	J	Yes	0.00082	J	Yes	0.00321	J	Yes	0.00559	J	Yes	0.00204	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.0013	J	Yes	0.000344	J	Yes	0.00213	J	Yes	0.00392	J	Yes	0.00134	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00102	J	Yes	0.00000671	J	Yes	0.00176	J	Yes	0.0035	J	Yes	0.00088	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00121	J	Yes	0.0000817	J	Yes	0.00231	J	Yes	0.00454	J	Yes	0.00125	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00294	J	Yes	0.0007	J	Yes	0.00498	J	Yes	0.00926	J	Yes	0.00312	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00484	J	Yes	0.00576	J	Yes	0.00675	J	Yes	0.00774	J	Yes	0.00588	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.00238	J	Yes	0.00253	J	Yes	0.00534	J	Yes	0.00814	J	Yes	0.00275	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.00156	J	Yes	0.0011	J	Yes	0.00251	J	Yes	0.00391	J	Yes	0.00123	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00187	J	Yes	0.000604	J	Yes	0.00321	J	Yes	0.00583	J	Yes	0.00215	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.00128	J	Yes	0.000534	J	Yes	0.00243	J	Yes	0.00432	J	Yes	0.00155	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Total TEQ-Fish ng/l		
													Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.000109	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.0002	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.0000179	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.00147	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00000697	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00000189	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.000193	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.0000977	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.000152	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.0000585	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00000671	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.0000179	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.0000874	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00454	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.000245	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.000274	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.000056	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.000133	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													Total TEQ-Fish (ND=0.5DL)			Total TEQ-Fish (ND=DL)			Total TEQ-Fish (KM)			Total TEQ-Mammal			Total TEQ-Mammal (ND=0.5DL)		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00195	J	Yes	0.00378	J	Yes	0.00142	J	Yes	0.000407	J	Yes	0.0021	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00171	J	Yes	0.00322	J	Yes	0.00124	J	Yes	0.00037	J	Yes	0.00166	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00166	J	Yes	0.00331	J	Yes	0.00111	J	Yes	0.0000992	J	Yes	0.00163	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.00185	J	Yes	0.00223	J	Yes	0.00212	J	Yes	0.00127	J	Yes	0.00178	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.0029	J	Yes	0.00578	J	Yes	0.00174	J	Yes	0.0000363	J	Yes	0.00262	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00164	J	Yes	0.00328	J	Yes	0.00108	J	Yes	0.00000538	J	Yes	0.00151	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.00241	J	Yes	0.00463	J	Yes	0.0019	J	Yes	0.000628	J	Yes	0.00266	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.0017	J	Yes	0.0033	J	Yes	0.00115	J	Yes	0.000341	J	Yes	0.00202	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00178	J	Yes	0.0034	J	Yes	0.00129	J	Yes	0.000393	J	Yes	0.00223	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00137	J	Yes	0.00267	J	Yes	0.00101	J	Yes	0.000172	J	Yes	0.00144	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00138	J	Yes	0.00275	J	Yes	0.000878	J	Yes	0.0000407	J	Yes	0.00131	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00177	J	Yes	0.00351	J	Yes	0.00115	J	Yes	0.0000478	J	Yes	0.00166	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00346	J	Yes	0.00682	J	Yes	0.00242	J	Yes	0.000285	J	Yes	0.00341	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00523	J	Yes	0.00592	J	Yes	0.0046	J	Yes	0.00468	J	Yes	0.00538	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.00242	J	Yes	0.0046	J	Yes	0.00172	J	Yes	0.000948	J	Yes	0.00295	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.00132	J	Yes	0.00237	J	Yes	0.00109	J	Yes	0.000593	J	Yes	0.00165	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00214	J	Yes	0.00422	J	Yes	0.00154	J	Yes	0.000155	J	Yes	0.0021	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.0016	J	Yes	0.00307	J	Yes	0.00109	J	Yes	0.000151	J	Yes	0.00158	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													Total TEQ-Mammal (ND=DL)			Total TEQ-Mammal (KM)			Total HpCDD			Total HxCDD			Total PeCDD		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.0038	J	Yes	0.00176	J	Yes	0.0288	J	Yes	0.00209	J	Yes	0.00129	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00294	J	Yes	0.00145	J	Yes	0.00433	Z	Yes	0.00162	Z	Yes	0.00104	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00316	J	Yes	0.00124	J	Yes	0.00439	Z	Yes	0.000563	Z	Yes	0.00112	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.00229	J	Yes	0.00196	J	Yes	0.0205		Yes	0.00441	U	No	0.000414	Z	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00521	J	Yes	0.0018	J	Yes	0.00549	U	No	0.002	UJ	No	0.00152	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00301	J	Yes	0.00109	J	Yes	0.00787	U	No	0.00128	U	No	0.00111	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.00469	J	Yes	0.0024	J	Yes	0.0535		Yes	0.00545	Z	Yes	0.00116	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.0037	J	Yes	0.00146	J	Yes	0.0273		Yes	0.0087	U	No	0.00102	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00406	J	Yes	0.00157	J	Yes	0.0415		Yes	0.0109	U	No	0.000932	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.00272	J	Yes	0.00116	J	Yes	0.021		Yes	0.00348		Yes	0.000724	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.00257	J	Yes	0.000933	J	Yes	0.00596	Z	Yes	0.000909	U	No	0.000807	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00328	J	Yes	0.0012	J	Yes	0.00603		Yes	0.001	U	No	0.00102	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00654	J	Yes	0.00268	J	Yes	0.0352		Yes	0.0018	U	No	0.00237	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00609	J	Yes	0.00478	J	Yes	0.023		Yes	0.00374	U	No	0.000594	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.00495	J	Yes	0.00246	J	Yes	0.0684		Yes	0.00623		Yes	0.00146	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.00271	J	Yes	0.00145	J	Yes	0.0485		Yes	0.00724		Yes	0.000807	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00404	J	Yes	0.00169	J	Yes	0.0169	Z	Yes	0.00119	U	No	0.00124	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.00301	J	Yes	0.00114	J	Yes	0.0137	U	No	0.00114	U	No	0.000959	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													Total TCDD			Total HpCDF			Total HxCDF			Total PeCDF			Total TCDF		
													ng/l			ng/l			ng/l			ng/l			ng/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.00249	J	Yes	0.0128	J	Yes	0.00304	J	Yes	0.00081	U	No	0.000973	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	0.00378	U	No	0.00342	Z	Yes	0.00222		Yes	0.00079	U	No	0.000628	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.00304	U	No	0.0015	Z	Yes	0.000729	U	No	0.000728	U	No	0.000788	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	0.00278	U	No	0.00881	Z	Yes	0.00572	Z	Yes	0.00124		Yes	0.000481	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.00269	U	No	0.00171	U	No	0.00139	U	No	0.00141	U	No	0.00146	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.00228	U	No	0.00384	U	No	0.00374	U	No	0.00243	U	No	0.000612	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.00165	U	No	0.0273		Yes	0.011	Z	Yes	0.000866	U	No	0.00119	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.00681	U	No	0.0151	Z	Yes	0.00567	Z	Yes	0.000754	U	No	0.000975	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.00708	U	No	0.0233		Yes	0.00667	Z	Yes	0.000673	U	No	0.000753	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.000962	U	No	0.0076		Yes	0.00126		Yes	0.000543	U	No	0.000742	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.000896	U	No	0.000676	U	No	0.000563	U	No	0.000533	U	No	0.000691	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.00116	U	No	0.00226	Z	Yes	0.000785	U	No	0.000748	U	No	0.000805	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	0.00208	U	No	0.00982		Yes	0.00115	U	No	0.00152	U	No	0.00152	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS	0.00697	Z	Yes	0.0124	Z	Yes	0.0063	Z	Yes	0.00606		Yes	0.00458	Z	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	0.00112	U	No	0.0343		Yes	0.0128	Z	Yes	0.000929	U	No	0.00125	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	0.00248	Z	Yes	0.0136	J	Yes	0.00667	Z	Yes	0.00253	Z	Yes	0.000407	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	0.00151	U	No	0.00748	J	Yes	0.000663	U	No	0.000927	U	No	0.000892	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	0.000971	U	No	0.00613	J	Yes	0.0022		Yes	0.000708	U	No	0.000567	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

Qualifier	Definition
J	estimated concentration
U	not detected at given concentration
N	tentative identification
EMPC	estimated maximum possible concentration
Z	estimated maximum possible concentration
R	rejected
T(#)	partial sum where the number in parentheses indicates the number of constituent parameters missing from the sum
C	data refers to the first of two or more co-eluting congeners
C###	number noted references the first of the co-eluting congeners

BERA Surface Water Chemistry Data from Above Dundee Dam

													1,1'-Biphenyl			2,2'-Oxybis(1-chloropropane)		
													µg/l			µg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	epth Ur	Sample ID	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	1	U	No	0.21	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	1	U	No	0.2	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.99	U	No	0.2	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.97	U	No	0.19	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.98	U	No	0.2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	1	U	No	0.21	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	1	U	No	0.2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.97	U	No	0.19	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.98	U	No	0.2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.95	U	No	0.19	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													2,4,5-Trichlorophenol			2,4,6-Trichlorophenol			2,4-Dichlorophenol			2,4-Dimethylphenol			2,4-Dinitrophenol			2,
													µg/l			µg/l			µg/l			µg/l			µg/l			
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	epth Ur	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	1	U	No	1	U	No	0.21	U	No	1	U	No	5.2	U	No	1
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	1	UJ	No	1	UJ	No	0.2	UJ	No	1	U	No	5	U	No	1
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.99	U	No	0.99	U	No	0.2	U	No	0.99	U	No	5	U	No	0.99
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.97	U	No	0.97	U	No	0.19	U	No	0.97	U	No	4.9	U	No	0.97
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.98	U	No	0.98	U	No	0.2	U	No	0.98	U	No	4.9	U	No	0.98
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	1	U	No	1	U	No	0.21	U	No	1	U	No	5.2	U	No	1
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	1	U	No	1	U	No	0.2	U	No	1	U	No	5.1	UJ	No	1
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.97	U	No	0.97	U	No	0.19	U	No	0.97	U	No	4.9	UJ	No	0.97
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.98	U	No	0.98	U	No	0.2	U	No	0.98	U	No	4.9	UJ	No	0.98
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.95	U	No	0.95	U	No	0.19	U	No	0.95	U	No	4.8	UJ	No	0.95

BERA Surface Water Chemistry Data from Above Dundee Dam

													4-Dinitrotoluene		2,6-Dinitrotoluene			2-Chloronaphthalene			2-Chlorophenol			2-Methylphenol		
													µg/l		µg/l			µg/l			µg/l			µg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	epth Ur	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	U	No	1	U	No	0.21	U	No	1	U	No	1	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	U	No	1	U	No	0.2	UJ	No	1	U	No	1	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	U	No	0.99	U	No	0.2	U	No	0.99	U	No	0.99	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	U	No	0.97	U	No	0.19	U	No	0.97	U	No	0.97	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	U	No	0.98	U	No	0.2	U	No	0.98	U	No	0.98	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	U	No	1	U	No	0.21	U	No	1	U	No	1	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	U	No	1	U	No	0.2	U	No	1	U	No	1	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	U	No	0.97	U	No	0.19	U	No	0.97	U	No	0.97	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	U	No	0.98	U	No	0.2	U	No	0.98	U	No	0.98	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	U	No	0.95	U	No	0.19	U	No	0.95	U	No	0.95	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													2-Nitroaniline			2-Nitrophenol			3,3'-Dichlorobenzidine			3-Nitroaniline			4,6-Dinitro-2-methylphenol		
													µg/l			µg/l			µg/l			µg/l			µg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	epth Ur	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	5.2	U	No	1	U	No	1	U	No	5.2	U	No	5.2	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	5	UJ	No	1	U	No	1	UJ	No	5	U	No	5	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	5	U	No	0.99	U	No	0.99	U	No	5	U	No	5	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	4.9	U	No	0.97	U	No	0.97	UJ	No	4.9	U	No	4.9	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	4.9	U	No	0.98	U	No	0.98	U	No	4.9	U	No	4.9	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	5.2	U	No	1	U	No	1	U	No	5.2	U	No	5.2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	5.1	U	No	1	U	No	1	U	No	5.1	U	No	5.1	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	4.9	U	No	0.97	U	No	0.97	U	No	4.9	U	No	4.9	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	4.9	U	No	0.98	U	No	0.98	U	No	4.9	U	No	4.9	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	4.8	U	No	0.95	U	No	0.95	U	No	4.8	U	No	4.8	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													4-Bromophenyl-phenylether			4-Chloro-3-methylphenol			4-Chloroaniline			4-Chlorophenyl-phenylether			4-Methylphenol			
													µg/l			µg/l			µg/l			µg/l			µg/l			
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	epth Ur	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	1	U	No	1	U	No	1	U	No	1	U	No	1	U	No	5.2
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	1	U	No	1	U	No	1	U	No	1	U	No	1	U	No	5
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.99	U	No	0.99	U	No	0.99	U	No	0.99	U	No	0.99	U	No	5
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.97	U	No	0.97	U	No	0.97	U	No	0.97	U	No	0.97	U	No	4.9
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.98	U	No	0.98	U	No	0.98	U	No	0.98	U	No	0.98	U	No	4.9
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	1	U	No	1	U	No	1	U	No	1	U	No	1	U	No	5.2
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	1	U	No	1	U	No	1	U	No	1	U	No	1	U	No	5.1
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.97	U	No	0.97	U	No	0.97	U	No	0.97	U	No	0.97	U	No	4.9
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.98	U	No	0.98	U	No	0.98	U	No	0.98	U	No	0.98	U	No	4.9
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.95	U	No	0.95	U	No	0.95	U	No	0.95	U	No	0.95	U	No	4.8

BERA Surface Water Chemistry Data from Above Dundee Dam

													4-Nitroaniline			4-Nitrophenol			Acetophenone			Atrazine			Benzaldehyde		
													µg/l			µg/l			µg/l			µg/l			µg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	epth Ur	Sample ID	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	U	No	5.2	U	No	1	U	No	1	U	No	1	UJ	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	U	No	5	U	No	1	U	No	1	U	No	1	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	UJ	No	5	U	No	0.99	U	No	0.99	U	No	0.99	UJ	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	U	No	4.9	U	No	0.97	U	No	0.97	U	No	1	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	U	No	4.9	U	No	0.98	U	No	0.98	U	No	0.98	UJ	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	U	No	5.2	U	No	1	U	No	1	U	No	1	UJ	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	U	No	5.1	U	No	1	U	No	1	U	No	1	UJ	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	U	No	4.9	U	No	0.97	U	No	0.97	U	No	0.97	UJ	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	U	No	4.9	UJ	No	0.98	U	No	0.98	U	No	0.98	UJ	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	U	No	4.8	UJ	No	0.95	U	No	0.95	U	No	0.95	UJ	No

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	epth Ur	Sample ID	Bis-(2-chloroethoxy)methane µg/l			Bis-(2-chloroethyl)ether µg/l			Bis-(2-ethylhexyl)phthalate µg/l			Butylbenzylphthalate µg/l		
													Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	1	U	No	0.21	U	No	2.1	U	No	1	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	1	U	No	0.2	U	No	2	UJ	No	1	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.99	U	No	0.2	U	No	2	U	No	0.99	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.97	U	No	0.19	U	No	1.9	U	No	0.97	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.98	U	No	0.2	U	No	2	U	No	0.84	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	1	U	No	0.21	U	No	2.1	U	No	0.59	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	1	U	No	0.2	U	No	2	U	No	1	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.97	U	No	0.19	U	No	1.9	U	No	0.97	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.98	U	No	0.2	U	No	2	U	No	0.98	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.95	U	No	0.19	U	No	1.9	U	No	0.95	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													Caprolactam			Carbazole			Dibenzofuran			Diethylphthalate			Dimethylphthalate		
													µg/l			µg/l			µg/l			µg/l			µg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	epth Ur	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	5.2	U	No	0.21	U	No	1	U	No	1	U	No	1	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	5	U	No	0.2	U	No	1	UJ	No	1	U	No	1	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	2.5	J	Yes	0.2	U	No	0.99	U	No	0.99	U	No	0.99	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	4.9	U	No	0.19	U	No	0.97	U	No	0.97	U	No	0.97	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	4.9	U	No	0.024	J	Yes	0.98	U	No	0.15	J	Yes	0.98	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	5.2	U	No	0.028	J	Yes	1	U	No	0.15	J	Yes	1	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	5.1	U	No	0.2	U	No	1	U	No	1	U	No	1	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	4.9	U	No	0.19	U	No	0.97	U	No	0.21	J	Yes	0.97	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	4.9	U	No	0.2	U	No	0.98	U	No	0.98	U	No	0.98	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	4.8	U	No	0.19	U	No	0.95	U	No	0.16	J	Yes	0.95	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													Di-n-butylphthalate			Di-n-octylphthalate			Hexachlorobutadiene			Hexachlorocyclopentadiene			Hexachloroethane			
													µg/l			µg/l			µg/l			µg/l			µg/l			
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	epth Ur	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	1	U	No	1	U	No	0.21	U	No	1	U	No	1	U	No	1
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	1	UJ	No	1	U	No	0.2	U	No	1	UJ	No	1	U	No	1
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.17	J	Yes	0.99	U	No	0.2	U	No	0.99	U	No	0.99	U	No	0.99
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.97	U	No	0.97	U	No	0.19	U	No	0.97	UJ	No	0.97	U	No	0.97
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.98	U	No	0.98	U	No	0.2	U	No	0.98	U	No	0.98	U	No	0.98
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	1	U	No	1	U	No	0.21	U	No	1	U	No	1	U	No	1
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	1	U	No	1	U	No	0.2	U	No	1	U	No	1	U	No	1
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.97	U	No	0.97	U	No	0.19	U	No	0.97	U	No	0.97	U	No	0.97
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.98	U	No	0.98	U	No	0.2	U	No	0.98	UJ	No	0.98	U	No	0.98
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.95	U	No	0.95	U	No	0.19	U	No	0.95	U	No	0.95	U	No	0.95

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	epth Ur	Sample ID	Isophorone µg/l	
													Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	epth Ur	Sample ID	Nitrobenzene µg/l			n-Nitroso-di-n-propylamine µg/l			n-Nitrosodiphenylamine µg/l			Pentachlorophenol µg/l			Phenol µg/l		
													Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	2.1	U	No	0.21	U	No	1	U	No	1	U	No	0.21	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	2	U	No	0.2	U	No	1	UJ	No	1	U	No	0.2	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	2	U	No	0.2	U	No	0.99	U	No	0.99	U	No	0.2	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	1.9	U	No	0.19	U	No	0.97	U	No	0.97	U	No	0.19	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	2	U	No	0.2	U	No	0.98	U	No	0.98	U	No	0.2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	2.1	U	No	0.21	U	No	1	U	No	1	U	No	0.21	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	2	U	No	0.2	U	No	1	U	No	1	U	No	0.2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	1.9	U	No	0.19	U	No	0.97	U	No	0.97	U	No	0.19	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	2	U	No	0.2	U	No	0.98	U	No	0.98	U	No	0.2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	1.9	U	No	0.19	U	No	0.95	U	No	0.95	U	No	0.19	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													1,1,1-Trichloroethane			1,1,2,2-Tetrachloroethane			1,1,2-Trichloroethane		
													µg/l			µg/l			µg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													1,1-Dichloroethane			1,1-Dichloroethene			1,2,3-Trichlorobenzene			1,2,4-Trichlorobenzene			1,2-Dibromo-3-chloropropane		
													µg/l			µg/l			µg/l			µg/l			µg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.5	U	No	0.5	U	No	2	U	No	2	U	No	2	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.5	U	No	0.5	U	No	2	U	No	2	U	No	2	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.5	U	No	0.5	U	No	2	U	No	2	U	No	2	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.5	U	No	0.5	U	No	2	U	No	2	U	No	2	UJ	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.5	U	No	0.5	U	No	2	U	No	2	U	No	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.5	U	No	0.5	U	No	2	U	No	2	U	No	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.5	U	No	0.5	U	No	2	U	No	2	U	No	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.5	U	No	0.5	U	No	2	U	No	2	U	No	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.5	U	No	0.5	U	No	2	U	No	2	U	No	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.5	U	No	0.5	U	No	2	U	No	2	U	No	2	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	1,2-Dibromoethane µg/l			1,2-Dichlorobenzene µg/l			1,2-Dichloroethane µg/l			1,2-Dichloropropane µg/l			1,3-Dichlorobenzene µg/l		
													Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	2	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	2	U	No	0.28	J	Yes	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	2	U	No	0.27	J	Yes	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	2	U	No	0.5	U	No	0.5	UJ	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	2	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	2	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	2	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	2	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	2	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	2	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													1,4-Dichlorobenzene			1,4-Dioxane			2-Butanone			2-Hexanone		
													µg/l			µg/l			µg/l			µg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.5	U	No	2.1	U	No	20	U	No	20	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.5	U	No	2	U	No	20	U	No	20	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.5	U	No	2	U	No	20	U	No	20	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.5	U	No	1.9	U	No	20	U	No	20	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.5	U	No	2	U	No	20	U	No	20	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.5	U	No	2.1	U	No	20	U	No	20	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.5	U	No	2	U	No	20	U	No	20	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.5	U	No	1.9	U	No	20	U	No	20	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.5	U	No	2	UJ	No	20	U	No	20	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.5	U	No	1.9	UJ	No	20	U	No	20	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													4-Methyl-2-pentanone			Acetone			Benzene			Bromochloromethane			Bromodichloromethane		
													µg/l			µg/l			µg/l			µg/l			µg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	20	U	No	20	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	20	U	No	20	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	20	U	No	20	U	No	0.5	U	No	0.5	U	No	0.1	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	20	U	No	20	U	No	0.5	U	No	0.5	U	No	0.59		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	20	U	No	20	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	20	U	No	20	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	20	U	No	20	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	20	U	No	20	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	20	U	No	20	UJ	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	20	U	No	20	U	No	0.5	U	No	0.5	U	No	0.5	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													Bromoform			Bromomethane			Carbon disulfide			Carbon Tetrachloride			Chlorobenzene		
													µg/l			µg/l			µg/l			µg/l			µg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.5	U	No	0.5	U	No	0.5	UJ	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.5	UJ	No	0.5	U	No	0.5	U	No	0.5	U	No	0.11	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.5	UJ	No	0.5	UJ	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.5	U	No	0.5	UJ	No	0.5	U	No	0.5	U	No	0.5	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													Chloroethane			Chloroform			Chloromethane			cis-1,2-Dichloroethylene			cis-1,3-Dichloropropene		
													µg/l			µg/l			µg/l			µg/l			µg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.13	J	Yes	0.5	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.5	U	No	0.5	U	No	0.5	UJ	No	0.23	J	Yes	0.5	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.5	U	No	1.5		Yes	0.5	UJ	No	0.07	J	Yes	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.18	J	Yes	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.12	J	Yes	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.5	U	No	0.5	U	No	0.5	UJ	No	0.13	J	Yes	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.5	U	No	0.5	U	No	0.5	UJ	No	0.11	J	Yes	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.1	J	Yes	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.11	J	Yes	0.5	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													Cyclohexane			Dibromochloromethane			Dichlorodifluoromethane			Ethylbenzene			Isopropylbenzene		
													µg/l			µg/l			µg/l			µg/l			µg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	1	U	No	0.5	U	No	0.5	U	No	0.5	U	No	2	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	1	U	No	0.5	U	No	0.5	UJ	No	0.2	J	Yes	0.44	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	1	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.13	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	1	U	No	0.26	J	Yes	0.5	U	No	0.5	U	No	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	1	U	No	0.5	U	No	0.5	U	No	0.05	J	Yes	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	1	U	No	0.5	U	No	0.5	U	No	0.05	J	Yes	2	UJ	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	1	U	No	0.5	U	No	0.5	UJ	No	0.5	U	No	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	1	U	No	0.5	U	No	0.5	UJ	No	0.05	J	Yes	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	1	U	No	0.5	U	No	0.5	UJ	No	0.05	J	Yes	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	1	U	No	0.5	U	No	0.5	U	No	0.07	J	Yes	0.06	J	Yes

BERA Surface Water Chemistry Data from Above Dundee Dam

													m, p-Xylene			Methyl acetate			Methyl tert-butyl ether (MTBE)			Methylcyclohexane			Methylene chloride		
													µg/l			µg/l			µg/l			µg/l			µg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.5	U	No	1	U	No	0.5	U	No	1	U	No	2	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	1.3		Yes	1	U	No	0.5	U	No	1	U	No	2	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.5	U	No	1	UJ	No	0.5	U	No	1	U	No	2	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.5	U	No	1	U	No	0.5	U	No	1	U	No	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.17	J	Yes	1	UJ	No	0.5	UJ	No	1	U	No	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.18	J	Yes	1	U	No	0.5	U	No	1	U	No	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.5	U	No	1	UJ	No	0.5	U	No	1	U	No	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.5	U	No	1	UJ	No	0.5	U	No	1	U	No	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.5	U	No	1	UJ	No	0.5	U	No	1	U	No	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.5	U	No	1	U	No	0.5	U	No	1	U	No	2	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													o-Xylene			Styrene			Tetrachloroethylene			Toluene			trans-1,2-Dichloroethene		
													µg/l			µg/l			µg/l			µg/l			µg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.12	J	Yes	0.5	U	No	0.18	J	Yes	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.5	U	No	0.5	U	No	0.19	J	Yes	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.5	U	No	0.5	U	No	0.18	J	Yes	0.19	J	Yes	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.5	UJ	No	0.5	UJ	No	0.5	U	No	0.16	J	Yes	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

													trans-1,3-Dichloropropene			Trichloroethene			Trichlorofluoromethane			Vinyl chloride		
													µg/l			µg/l			µg/l			µg/l		
StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.5	U	No	0.1	J	Yes	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.5	U	No	0.1	J	Yes	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.5	U	No	0.11	J	Yes	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.5	U	No	0.5	U	No	0.5	U	No	0.5	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Cyanide mg/l Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.01	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	0.01	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	0.01	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	0.01	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.01	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.003	J	Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.01	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.01	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	0.01	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.01	U	No

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Alkalinity (total, as CaCO3) mg/l			Ammonia mg/l			Chloride (as Cl) mg/l			Hardness (as CaCO3) mg/l		
													Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CE05-T175	17.6	594533.91	747560.41	Surface (3 ft below surface)	15-Aug-11	Tide independent	4.44	4.44	ft	11A-CE05-T175-AS												
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	54		Yes	0.057		Yes	65.2		Yes	89.1		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS	73.4		Yes				106		Yes			
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	86.3		Yes	0.05	U	No	109		Yes	147		Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS	61.3		Yes				71.3		Yes			
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	87.1		Yes	0.176		Yes	183		Yes	172		Yes
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	134		Yes	0.05	U	No	119		Yes	144		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	50.1		Yes	0.116		Yes	123		Yes	92		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	48.5		Yes	0.126		Yes	122		Yes	86.9		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	48.1		Yes	0.104		Yes	113		Yes	84.5		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	51.3		Yes	0.079		Yes	105		Yes	86.5		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	46.8		Yes	0.032	J	Yes	98.3		Yes	83.7		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	47.2		Yes	0.038	J	Yes	98.8		Yes	83.9		Yes
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS	60.6		Yes				76		Yes			
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS												
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS	45.5		Yes				42.9		Yes			
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS	43.7		Yes				43.1		Yes			
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS	47.7		Yes				44.6		Yes			
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS	48		Yes				45.4		Yes			

BERA Surface Water Chemistry Data from Above Dundee Dam

StationDescription	Event	Location	RM	X	Y	Depth Interval	Sample Date	Tide Level	Upper Depth	Lower Depth	Depth Unit	Sample ID	Nitrogen, Kjeldahl mg/l			Phosphorus mg/l			Salinity ppt			Sulfate mg/l			Total sulfide mg/l		
													Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect	Value	Qual	Detect
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CE05-T175	17.6	594533.91	747560.41	Surface (3 ft below surface)	15-Aug-11	Tide independent	4.44	4.44	ft	11A-CE05-T175-AS							0.17		Yes						
RM 17.5 (Above Dundee Dam)	2011 Chemical Water Column Monitoring	11A-CEA5-T175	17.6	594533.04	747557.53	Surface (3 ft below surface)	15-Aug-11	Tide independent	3.95	3.95	ft	11A-CEA5-T175-AS	0.95		Yes	0.249		Yes	0.19		Yes	15.9		Yes	0.6	J	Yes
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 2	12B-CE05-T175	17.6	594534.35	747553.78	Surface (3 ft below surface)	20-Feb-12	Tide independent	2.77	2.77	ft	12B-CE05-T175-AS							0.2		Yes	19		Yes	2	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 3	12D-CE05-T175	17.6	594533.08	747557.04	Surface (3 ft below surface)	26-Mar-12	Tide independent	2.06	2.11	ft	12D-CE05-T175-AS	1.25		Yes	0.274		Yes	0.3		Yes	26		Yes	2	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 4	12F-CE05-T175	17.6	594536.97	747560.22	Surface (3 ft below surface)	04-Jun-12	Tide independent	2.47	2.6	ft	12F-CE05-T175-AS							0.19		Yes	14.7		Yes	2	U	No
RM 17.5 (Above Dundee Dam)	2012 Chemical Water Column Monitoring 5	12H-CE05-T175	17.6	594533.49	747558.03	Surface (3 ft below surface)	10-Dec-12	Tide independent	1.86	1.86	ft	12H-CE05-T175-AS	1.35	J	Yes	0.455		Yes	0.43		Yes	32		Yes	2	U	No
RM 17.5 (Above Dundee Dam)	2012 Low Flow Chemical Water Column Monitoring	12G-CE05-T175	17.6	594539.2	747566.2	Surface (3 ft below surface)	29-Aug-12	Tide independent	1.93	1.93	ft	12G-CE05-T175-AS	1.12	J	Yes	0.306		Yes				33.4		Yes	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE11-T175	17.6	594535.8	747559.19	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE11-T175-AS	0.95		Yes	0.151		Yes	0.21		Yes	14.2		Yes	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE12-T175	17.6	594522.52	747569.32	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE12-T175-AS	0.97		Yes	0.205		Yes	0.22		Yes	13.7		Yes	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE13-T175	17.6	594534.57	747560.44	Surface (3 ft below surface)	27-Feb-13	Tide independent	3.1	3.1	ft	12C-CE13-T175-AS	0.87		Yes	0.156		Yes	0.21		Yes	12.6		Yes	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE20-T175	17.6	594534.14	747558.26	Surface (3 ft below surface)	27-Feb-13	Tide independent	2.7	2.7	ft	12C-CE20-T175-AS	0.97		Yes	0.107		Yes	0.24		Yes	13.4		Yes	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE21-T175	17.6	594535.4	747560.07	Surface (3 ft below surface)	04-Mar-13	Tide independent	3	3	ft	12C-CE21-T175-AS	1.03		Yes	0.076		Yes	0.23		Yes	13.4		Yes	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 1	12C-CE22-T175	17.6	594535.76	747558.37	Surface (3 ft below surface)	04-Mar-13	Tide independent	2.7	2.7	ft	12C-CE22-T175-AS	0.9		Yes	0.074		Yes	0.23		Yes	13.3		Yes	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE11-T175	17.6	594533.86	747559.43	Surface (3 ft below surface)	07-Jun-13	Tide independent	2.5	2.5	ft	13A-CE11-T175-AS							0.21		Yes	12.5		Yes	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE12-T175	17.6	594535.96	747560.75	Surface (3 ft below surface)	07-Jun-13	Tide independent	6	6	ft	13A-CE12-T175-AS							0.2		Yes						
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE13-T175	17.6	594534.93	747561.35	Surface (3 ft below surface)	08-Jun-13	Tide independent	3.5	3.5	ft	13A-CE13-T175-AS							0.1		Yes	7.9		Yes	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE20-T175	17.6	594534	747559.76	Surface (3 ft below surface)	09-Jun-13	Tide independent	3.4	3.3	ft	13A-CE20-T175-AS							0.13		Yes	8.4		Yes	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE21-T175	17.6	594529.14	747552.39	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.15	2.15	ft	13A-CE21-T175-AS							0.14		Yes	8		Yes	2	U	No
RM 17.5 (Above Dundee Dam)	2013 High Flow Chemical Water Column Monitoring 2	13A-CE22-T175	17.6	594536.78	747562.47	Surface (3 ft below surface)	20-Jun-13	Tide independent	2.63	2.63	ft	13A-CE22-T175-AS							0.14		Yes	8		Yes	2	U	No

BERA Sediment Chemistry Data for the Regional Datasets

Area_of_Interest	Event	Location	Latitude	Longitude	Sample_Date	Sample_ID	value
Jamaica Bay	CARP Sediment Ambient Stu	2200_46_JBA11	40.5871	-73.8526	24-Aug-99	2200_46_JBA11_1JMS12	1.1
Jamaica Bay	NCA Prog New York/New Je	2300_M0_NY-0029-A	40.5733	-73.8834	01-Aug-00	2300_M0_NY-0029-A_#	1
Jamaica Bay	NCA Prog New York/New Je	2300_M1_NY-0032-A	40.6269	-73.8831	21-Aug-01	2300_M1_NY-0032-A_#	1
Jamaica Bay	NCA Prog New York/New Je	2300_M2_NY-0029-A	40.5734	-73.8811	14-Aug-02	2300_M2_NY-0029-A_#	1
Jamaica Bay	NCA Prog New York/New Je	2300_M2_NY-0235-A	40.6453	-73.82	14-Aug-02	2300_M2_NY-0235-A_#	9.6
Jamaica Bay	NCA Prog New York/New Je	2300_M2_NY-0239-A	40.659	-73.8388	14-Aug-02	2300_M2_NY-0239-A_#	11.8
Jamaica Bay	NCA Prog New York/New Je	2300_M3_NY03-0236	40.6312	-73.7424	05-Aug-03	2300_M3_NY03-0236_1	1
Jamaica Bay	NCA Prog New York/New Je	2300_M4_NY04-0234	40.6079	-73.8823	03-Aug-04	2300_M4_NY04-0234_1	10.1
Jamaica Bay	NCA Prog New York/New Je	2300_M5_NY05-0002	40.594	-73.873	09-Aug-05	2300_M5_NY05-0002_1	6.94
Jamaica Bay	NCA Prog New York/New Je	2300_M5_NY05-0010	40.629	-73.749	09-Aug-05	2300_M5_NY05-0010_1	15.3
Jamaica Bay	REMAP 2003	JB301	40.629	-73.759	31-Jul-03	JB301	1.3
Jamaica Bay	REMAP 2003	JB303	40.619	-73.778	08-Aug-03	JB303	9.2
Jamaica Bay	REMAP 2003	JB305	40.575	-73.87	07-Aug-03	JB305	9.5
Jamaica Bay	REMAP 2003	JB306	40.572	-73.88	05-Aug-03	JB306	8.3
Jamaica Bay	REMAP 2003	JB307	40.64	-73.847	11-Aug-03	JB307	16.7
Jamaica Bay	REMAP 2003	JB309	40.643	-73.858	05-Aug-03	JB309	12.3
Jamaica Bay	REMAP 2003	JB310	40.639	-73.828	12-Aug-03	JB310	5
Jamaica Bay	REMAP 2003	JB313	40.61	-73.81	11-Aug-03	JB313	15.5
Jamaica Bay	REMAP 2003	JB315	40.605	-73.786	14-Aug-03	JB315	2.2
Jamaica Bay	REMAP 2003	JB316	40.625	-73.837	08-Aug-03	JB316	7.3
Jamaica Bay	REMAP 2003	JB317	40.621	-73.812	13-Aug-03	JB317	1.8
Jamaica Bay	REMAP 2003	JB319	40.633	-73.807	05-Aug-03	JB319	1.3
Jamaica Bay	REMAP 2003	JB322	40.627	-73.871	07-Aug-03	JB322	2.4
Jamaica Bay	REMAP 2003	JB323	40.633	-73.873	06-Aug-03	JB323	11.9
Jamaica Bay	REMAP 2003	JB354	40.602	-73.877	06-Aug-03	JB354	9.2
Jamaica Bay	REMAP 2003	JB358	40.608	-73.89	07-Aug-03	JB358	1.8
Jamaica Bay	REMAP 2003	JB359	40.612	-73.872	07-Aug-03	JB359	2.2
Jamaica Bay	REMAP 2003	JB361	40.584	-73.853	08-Aug-03	JB361	2.6
Jamaica Bay	REMAP 2003	JB364	40.593	-73.871	11-Aug-03	JB364	15.8
Jamaica Bay	REMAP 2003	JB366	40.589	-73.859	13-Aug-03	JB366	4.7
Jamaica Bay	REMAP 2003	JB367	40.588	-73.835	12-Aug-03	JB367	11.7
Jamaica Bay	REMAP 2003	JB368	40.592	-73.846	12-Aug-03	JB368	3.2
Jamaica Bay	REMAP 2003	JB371	40.595	-73.805	14-Aug-03	JB371	11.1
Jamaica Bay	REMAP 2003	JB372	40.596	-73.812	14-Aug-03	JB372	20.7
Jamaica Bay	REMAP 2003	JB374	40.624	-73.76	08-Sep-03	JB374	8.8
Jamaica Bay	REMAP 2003	JB380	40.629	-73.854	09-Sep-03	JB380	1.1
Jamaica Bay	REMAP 2003	JB381	40.601	-73.774	15-Sep-03	JB381	1.6
Jamaica Bay	REMAP 2003	JB386	40.604	-73.864	09-Sep-03	JB386	1.3
Jamaica Bay	REMAP 1998	2200_56_JB008	40.6409	-73.8162	04-Aug-98	2200_56_JB008_01	12
Jamaica Bay	REMAP 1998	2200_56_JB018	40.6096	-73.786	05-Aug-98	2200_56_JB018_01	13
Jamaica Bay	REMAP 1998	2200_56_JB026	40.6034	-73.842	07-Aug-98	2200_56_JB026_01	9
Jamaica Bay	REMAP 1998	2200_56_JB031	40.611	-73.8719	08-Aug-98	2200_56_JB031_01	2
Jamaica Bay	REMAP 1998	2200_56_JB033	40.6161	-73.8879	03-Aug-98	2200_56_JB033_01	10
Jamaica Bay	REMAP 1998	2200_56_JB039	40.587	-73.845	01-Aug-98	2200_56_JB039_01	9
Jamaica Bay	REMAP 1998	2200_56_JB041	40.585	-73.8613	01-Aug-98	2200_56_JB041_01	8
Jamaica Bay	REMAP 1998	2200_56_JB042	40.5827	-73.847	01-Aug-98	2200_56_JB042_01	0
Jamaica Bay	REMAP 1998	2200_56_JB043	40.5756	-73.8751	17-Jul-98	2200_56_JB043_01	1
Jamaica Bay	REMAP 1998	2200_56_JB201	40.5718	-73.8794	17-Jul-98	2200_56_JB201_01	0
Jamaica Bay	REMAP 1998	2200_56_JB202	40.6118	-73.8101	06-Aug-98	2200_56_JB202_01	11
Jamaica Bay	REMAP 1998	2200_56_JB203	40.6328	-73.8067	04-Aug-98	2200_56_JB203_01	12
Jamaica Bay	REMAP 1998	2200_56_JB204	40.6082	-73.8898	03-Aug-98	2200_56_JB204_01	15
Jamaica Bay	REMAP 1998	2200_56_JB205	40.589	-73.8593	01-Aug-98	2200_56_JB205_01	1
Jamaica Bay	REMAP 1998	2200_56_JB206	40.5954	-73.8047	05-Aug-98	2200_56_JB206_01	8
Jamaica Bay	REMAP 1998	2200_56_JB207	40.6286	-73.7591	06-Aug-98	2200_56_JB207_01	15
Jamaica Bay	REMAP 1998	2200_56_JB209	40.6051	-73.7872	05-Aug-98	2200_56_JB209_01	12
Jamaica Bay	REMAP 1998	2200_56_JB210	40.6275	-73.8712	08-Aug-98	2200_56_JB210_01	2
Jamaica Bay	REMAP 1998	2200_56_JB211	40.612	-73.8725	08-Aug-98	2200_56_JB211_01	3
Jamaica Bay	REMAP 1998	2200_56_JB212	40.5881	-73.8335	06-Aug-98	2200_56_JB212_01	1
Jamaica Bay	REMAP 1998	2200_56_JB213	40.6189	-73.7777	05-Aug-98	2200_56_JB213_01	14
Jamaica Bay	REMAP 1998	2200_56_JB214	40.6426	-73.8581	03-Aug-98	2200_56_JB214_01	7
Jamaica Bay	REMAP 1998	2200_56_JB215	40.6256	-73.837	10-Aug-98	2200_56_JB215_01	5
Jamaica Bay	REMAP 1998	2200_56_JB216	40.633	-73.8734	08-Aug-98	2200_56_JB216_01	2
Jamaica Bay	REMAP 1998	2200_56_JB217	40.5853	-73.8522	10-Aug-98	2200_56_JB217_01	1
Jamaica Bay	REMAP 1998	2200_56_JB219	40.5749	-73.887	08-Aug-98	2200_56_JB219_01	0
Jamaica Bay	REMAP 1998	2200_56_JB222	40.6032	-73.8777	11-Aug-98	2200_56_JB222_01	2
Jamaica Bay	REMAP 1998	2200_56_JB223	40.5926	-73.8707	10-Aug-98	2200_56_JB223_01	10
Jamaica Bay	REMAP, 1993	2200_26_JB002	40.63616	-73.797836	14-Sep-93	2200_26_JB002_02	2.7
Jamaica Bay	REMAP, 1993	2200_26_JB006	40.6083	-73.77319	16-Sep-93	2200_26_JB006_06	1.24
Jamaica Bay	REMAP, 1993	2200_26_JB008	40.641081	-73.816019	14-Sep-93	2200_26_JB008_08	5.85

Jamaica Bay	REMAP, 1993	2200_26_JB012	40.648469	-73.890094	24-Sep-93	2200_26_JB012_12	6.08
Jamaica Bay	REMAP, 1993	2200_26_JB015	40.626179	-73.794061	15-Sep-93	2200_26_JB015_15	10.3
Jamaica Bay	REMAP, 1993	2200_26_JB018	40.608684	-73.786069	15-Sep-93	2200_26_JB018_18	11.6
Jamaica Bay	REMAP, 1993	2200_26_JB022	40.604022	-73.779599	17-Sep-93	2200_26_JB022_22	2.47
Jamaica Bay	REMAP, 1993	2200_26_JB026	40.603411	-73.841641	16-Sep-93	2200_26_JB026_26	1.61
Jamaica Bay	REMAP, 1993	2200_26_JB031	40.611179	-73.871529	17-Sep-93	2200_26_JB031_31	1.34
Jamaica Bay	REMAP, 1993	2200_26_JB033	40.615974	-73.887738	13-Sep-93	2200_26_JB033_33	5
Jamaica Bay	REMAP, 1993	2200_26_JB039	40.586676	-73.845564	08-Sep-93	2200_26_JB039_39	4.2
Jamaica Bay	REMAP, 1993	2200_26_JB041	40.585592	-73.860123	09-Sep-93	2200_26_JB041_41	9.72
Jamaica Bay	REMAP, 1993	2200_26_JB042	40.582913	-73.848083	17-Sep-93	2200_26_JB042_42	0.73
Jamaica Bay	REMAP, 1993	2200_26_JB043	40.576184	-73.873706	09-Sep-93	2200_26_JB043_43	4.64
Jamaica Bay	REMAP, 1994	2200_27_JB101	40.6395	-73.813667	09-Sep-94	2200_27_JB101_01	14.8
Jamaica Bay	REMAP, 1994	2200_27_JB103	40.629067	-73.787567	12-Sep-94	2200_27_JB103_03	9.44
Jamaica Bay	REMAP, 1994	2200_27_JB104	40.621767	-73.8415	12-Sep-94	2200_27_JB104_04	3.6
Jamaica Bay	REMAP, 1994	2200_27_JB106	40.620783	-73.890333	06-Sep-94	2200_27_JB106_06	12.1
Jamaica Bay	REMAP, 1994	2200_27_JB108	40.61705	-73.85725	08-Sep-94	2200_27_JB108_08	2.19
Jamaica Bay	REMAP, 1994	2200_27_JB110	40.606533	-73.814567	09-Sep-94	2200_27_JB110_10	1.35
Jamaica Bay	REMAP, 1994	2200_27_JB111	40.6052	-73.790717	08-Sep-94	2200_27_JB111_11	11.2
Jamaica Bay	REMAP, 1994	2200_27_JB112	40.602533	-73.864867	08-Sep-94	2200_27_JB112_12	2.41
Jamaica Bay	REMAP, 1994	2200_27_JB113	40.595767	-73.8673	06-Sep-94	2200_27_JB113_13	1.89
Jamaica Bay	REMAP, 1994	2200_27_JB114	40.591167	-73.85135	08-Sep-94	2200_27_JB114_14	2.63
Jamaica Bay	REMAP, 1994	2200_27_JB115	40.63375	-73.869983	06-Sep-94	2200_27_JB115_15	2.88
Jamaica Bay	REMAP, 1994	2200_27_JB117	40.6234	-73.765233	14-Sep-94	2200_27_JB117_17	6.5
Jamaica Bay	REMAP, 1994	2200_27_JB119	40.60355	-73.875233	12-Sep-94	2200_27_JB119_19	2.08
Jamaica Bay	REMAP, 1994	2200_27_JB120	40.596367	-73.812983	13-Sep-94	2200_27_JB120_20	1.38
Mullica River	NCA Program New Jersey At	NJ00-0041	39.612	-74.589	07-Sep-00	NJ00-0041-A	1
Mullica River	NCA Program New Jersey At	NJ01-0120	39.62	-74.63	18-Oct-01	NJ01-0120-A	3
Mullica River	NCA Program New Jersey At	NJ02-0232	39.629	-74.643	03-Sep-02	NJ02-0232-A	2.9
Mullica River	NCA Program New Jersey At	NJ04-0432	39.62	-74.631	09-Jul-04	NJ04-0432-A	5
Mullica River	NCA Program New Jersey At	NJ06-0046	39.612	-74.589	08-Aug-06	NJ06-0046-A	4.08
Mullica River and Great Bay	1999 Late Summer/Early Fal	MR9921SDM-TSI	39.577054	-74.540511	12-Oct-99	MR9921SDM	32.8
Mullica River and Great Bay	1999 Late Summer/Early Fal	MR9922SDM-TSI	39.55279	-74.480896	14-Oct-99	MR9922SDM	15.2
Mullica River and Great Bay	1999 Late Summer/Early Fal	MR9923SDM-TSI	39.553648	-74.403385	13-Oct-99	MR9923SDM	16.6
Mullica River and Great Bay	EMAP-Delaware Bay 1990	2300_13_90-118	39.54167	-74.40833	11-Aug-90	2300_13_90-118_01	
Mullica River and Great Bay	EMAP-Delaware Bay 1990	2300_13_90-120	39.55167	-74.415	11-Aug-90	2300_13_90-120_01	
Mullica River and Great Bay	EMAP-Delaware Bay 1991	2300_14_91-348	39.49606	-74.38222	24-Jul-91	2300_14_91-348_01	7.22
Mullica River and Great Bay	EMAP-Delaware Bay 1991	2300_14_91-349	39.50367	-74.38467	24-Jul-91	2300_14_91-349_01	9.09
Mullica River and Great Bay	NCA Prog New Jersey Atlant	2300_L3_NJ03-0038	39.5568	-74.4796	29-Oct-03	2300_L3_NJ03-0038_1	6.6
Mullica River and Great Bay	NCA Prog New Jersey Atlant	2300_L4_NJ04-0427	39.521	-74.379	27-Aug-04	2300_L4_NJ04-0427_1	10.9
Mullica River and Great Bay	NCA Prog New Jersey Atlant	2300_L4_NJ04-0429	39.568	-74.502	09-Jul-04	2300_L4_NJ04-0429_1	16.4
Mullica River and Great Bay	NCA Prog New Jersey Atlant	2300_L5_NJ05-0059	39.505	-74.354	13-Sep-05	2300_L5_NJ05-0059_1	12.7
Mullica River and Great Bay	NCA Prog New Jersey Atlant	2300_L6_NJ06-0015	39.536	-74.388	08-Aug-06	2300_L6_NJ06-0015_1	7.58
Mullica River and Great Bay	NCA Prog New Jersey Atlant	2300_L6_NJ06-0027	39.5	-74.401	14-Jul-06	2300_L6_NJ06-0027_1	7.8
Mullica River and Great Bay	NCA Prog New Jersey Atlant	2300_L6_NJ06-0035	39.496	-74.36	14-Jul-06	2300_L6_NJ06-0035_1	2.4
Mullica River and Great Bay	NCA Program New Jersey At	NJ00-0035	39.505	-74.399	07-Sep-00	NJ00-0035-A	10
Mullica River and Great Bay	NCA Program New Jersey At	NJ00-0037	39.594	-74.551	07-Sep-00	NJ00-0037-A	2
Mullica River and Great Bay	NCA Program New Jersey At	NJ01-0036	39.511	-74.297	08-Aug-01	NJ01-0036-A	1
Mullica River and Great Bay	NCA Program New Jersey At	NJ01-0038	39.557	-74.48	19-Jul-01	NJ01-0038-A	17
Mullica River and Great Bay	NCA Program New Jersey At	NJ01-0116	39.535	-74.377	11-Oct-01	NJ01-0116-A	10
Mullica River and Great Bay	NCA Program New Jersey At	NJ01-0118	39.553	-74.454	12-Oct-01	NJ01-0118-A	12
Mullica River and Great Bay	NCA Program New Jersey At	NJ01-0122	39.585	-74.538	18-Oct-01	NJ01-0122-A	6
Mullica River and Great Bay	NCA Program New Jersey At	NJ02-0227	39.498	-74.334	23-Sep-02	NJ02-0227-A	3
Mullica River and Great Bay	NCA Program New Jersey At	NJ02-0229	39.582	-74.536	03-Sep-02	NJ02-0229-A	13.9
Mullica River and Great Bay	NCA Program New Jersey At	NJ02-0230	39.537	-74.334	15-Aug-02	NJ02-0230-A	7.5
Mullica River and Great Bay	NCCA Program 2010	NCCA10-2622	39.50785	-74.33571	05-Aug-10	NCCA10-2622	0.4

Arsenic		Cadmium			Chromium			Cobalt			Copper			Lead			Mercury			Methyl mer	
mg/kg		mg/kg			mg/kg			mg/kg			mg/kg			mg/kg			ug/kg			ug/kg	
qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual
J	Yes	0.097	V	Yes	4		Yes	0.56	J	Yes	1.9	J	Yes	5.2		Yes	27.2	V	Yes	0.09	V
U	No	1	U	No	1		Yes				1	U	No	2		Yes	100	U	No		
	Yes	1	U	No	5		Yes				4		Yes	5		Yes	50	U	No		
U	No	0.4	U	No	1.39		Yes				1.04		Yes	2.62		Yes	50	U	No		
	Yes	1.84		Yes	40.2		Yes				88.8		Yes	75.5		Yes	420		Yes		
	Yes	2.93		Yes	55.9		Yes				196		Yes	195		Yes	590		Yes		
U	No	0.4	U	No	2.88		Yes				7.28		Yes	5.23		Yes	10	U	No		
	Yes	1.45		Yes	41.8		Yes				52.5		Yes	64		Yes	520		Yes		
	Yes	2.23		Yes	31.9		Yes				29.4		Yes	39.3		Yes	264		Yes		
	Yes	3		Yes	47.5		Yes				100		Yes	118		Yes	353		Yes		
	Yes	0.12	U	No	8.8		Yes				2.2		Yes	7.9		Yes	17	U	No		
	Yes	2		Yes	66.5		Yes				80.3		Yes	83.4		Yes	430		Yes		
	Yes	1.7		Yes	71		Yes				36.8		Yes	70.4		Yes	390		Yes		
	Yes	1.4		Yes	61.4		Yes				57.2		Yes	79.4		Yes	440		Yes		
	Yes	2.3		Yes	87		Yes				108		Yes	155		Yes	540		Yes		
	Yes	2		Yes	84.7		Yes				72.2		Yes	102		Yes	590		Yes		
	Yes	1.3		Yes	47.1		Yes				25.7		Yes	40.1		Yes	250		Yes		
	Yes	2.7		Yes	99		Yes				104		Yes	137		Yes	620		Yes		
	Yes	0.36		Yes	17.7		Yes				6.3		Yes	18.5		Yes	55		Yes		
	Yes	1.1		Yes	64.9		Yes				41.6		Yes	59.8		Yes	340		Yes		
	Yes	0.16		Yes	13.7		Yes				5		Yes	14.5		Yes	43		Yes		
	Yes	0.2		Yes	13.3		Yes				2.5		Yes	8.7		Yes	17	U	No		
	Yes	0.21		Yes	18.8		Yes				5.2		Yes	16		Yes	48		Yes		
	Yes	1.5		Yes	78.2		Yes				53.3		Yes	82		Yes	640		Yes		
	Yes	1.4		Yes	66.1		Yes				43.5		Yes	67.7		Yes	430		Yes		
	Yes	0.12	U	No	14		Yes				3.9		Yes	13.6		Yes	28		Yes		
	Yes	0.24		Yes	18.2		Yes				4.6		Yes	15.6		Yes	42		Yes		
	Yes	0.8		Yes	45.1		Yes				40		Yes	42.2		Yes	110		Yes		
	Yes	2		Yes	88.9		Yes				85		Yes	125		Yes	610		Yes		
	Yes	0.64		Yes	34.7		Yes				21.5		Yes	38.2		Yes	200		Yes		
	Yes	1.8		Yes	83.6		Yes				59.8		Yes	89.3		Yes	580		Yes		
	Yes	0.43		Yes	26.9		Yes				11.9		Yes	27.4		Yes	150		Yes		
	Yes	1.6		Yes	85.9		Yes				72.1		Yes	97.2		Yes	580		Yes		
	Yes	4.8		Yes	126		Yes				322		Yes	347		Yes	1000		Yes		
	Yes	1.7		Yes	66.5		Yes				80.5		Yes	124		Yes	530		Yes		
	Yes	0.12	U	No	9		Yes				4.8		Yes	11.7		Yes	36		Yes		
	Yes	0.12	U	No	12.7		Yes				2.8		Yes	7.8		Yes	17	U	No		
	Yes	0.12	U	No	7.9		Yes				2.1		Yes	8.7		Yes	17	U	No		
	Yes	1		Yes	66		Yes				88		Yes	83		Yes	640		Yes		
	Yes	0.8		Yes	65		Yes				69		Yes	82		Yes	620		Yes		
	Yes	0	U	No	43		Yes				36		Yes	53		Yes	320		Yes		
	Yes	0	U	No	9		Yes				4		Yes	11		Yes	0	U	No		
	Yes	0	U	No	52		Yes				46		Yes	59		Yes	490		Yes		
	Yes	0	U	No	45		Yes				39		Yes	50		Yes	500		Yes		
	Yes	0	U	No	36		Yes				28		Yes	37		Yes	380		Yes		
U	No	0	U	No	4		Yes				3		Yes	4		Yes	0	U	No		
	Yes	0	U	No	4		Yes				0	U	No	4		Yes	0	U	No		
U	No	0	U	No	3		Yes				0	U	No	2		Yes	0	U	No		
	Yes	0	U	No	57		Yes				61		Yes	71		Yes	520		Yes		
	Yes	1.1		Yes	73		Yes				94		Yes	88		Yes	610		Yes		
	Yes	0.6		Yes	68		Yes				62		Yes	74		Yes	750		Yes		
	Yes	0	U	No	4		Yes				0	U	No	4		Yes	0	U	No		
	Yes	0.6		Yes	46		Yes				60		Yes	73		Yes	500		Yes		
	Yes	0.8		Yes	60		Yes				102		Yes	117		Yes	500		Yes		
	Yes	0	U	No	57		Yes				60		Yes	76		Yes	470		Yes		
	Yes	0	U	No	12		Yes				8		Yes	13		Yes	100		Yes		
	Yes	0	U	No	11		Yes				6		Yes	10		Yes	70		Yes		
	Yes	0	U	No	5		Yes				0	U	No	5		Yes	0	U	No		
	Yes	1		Yes	66		Yes				86		Yes	94		Yes	660		Yes		
	Yes	0	U	No	38		Yes				41		Yes	38		Yes	340		Yes		
	Yes	0	U	No	27		Yes				23		Yes	29		Yes	210		Yes		
	Yes	0	U	No	15		Yes				9		Yes	9		Yes	90		Yes		
	Yes	0	U	No	5		Yes				3		Yes	5		Yes	0	U	No		
U	No	0	U	No	3		Yes				0	U	No	4		Yes	0	U	No		
	Yes	0	U	No	12		Yes				4		Yes	5		Yes	0	U	No		
	Yes	0	U	No	47		Yes				35		Yes	50		Yes	490		Yes		
	Yes	0.277		Yes	30.2		Yes				9.8		Yes	17.1		Yes	54		Yes		
	Yes	0.234		Yes	26.2		Yes				4.52		Yes	16.5		Yes	48		Yes		
	Yes	1.63		Yes	66.8		Yes				79.7		Yes	62.7		Yes	354		Yes		

	Yes	8.79		Yes	109		Yes				589		Yes	651		Yes	2150		Yes		
	Yes	2.36		Yes	69.4		Yes				88.7		Yes	77.9		Yes	375		Yes		
	Yes	2.07		Yes	87.9		Yes				86.8		Yes	107		Yes	666		Yes		
	Yes	0.317		Yes	40		Yes				8.14		Yes	22.4		Yes	117		Yes		
	Yes	0.422		Yes	21.7		Yes				5.97		Yes	19.9		Yes	111		Yes		
	Yes	0.257		Yes	35.5		Yes				4.98		Yes	18.2		Yes	63		Yes		
	Yes	0.67		Yes	62.1		Yes				37		Yes	51.6		Yes	343		Yes		
	Yes	0.422		Yes	40.3		Yes				25		Yes	39.2		Yes	409		Yes		
	Yes	0.71		Yes	76.9		Yes				49.2		Yes	74.1		Yes	481		Yes		
	Yes	0.043		Yes	11.7		Yes				3.33		Yes	10.2		Yes	35		Yes		
	Yes	0.374		Yes	39.6		Yes				23.5		Yes	35.2		Yes	243		Yes		
	Yes	2.93		Yes	114		Yes				175		Yes	127		Yes	650		Yes		
	Yes	1.56		Yes	72.7		Yes				84.8		Yes	76.5		Yes	256		Yes		
	Yes	0.569		Yes	41.5		Yes				24.7		Yes	29.6		Yes	141		Yes		
	Yes	0.687		Yes	102		Yes				81.5		Yes	97.7		Yes	545		Yes		
	Yes	0.111		Yes	21		Yes				4		Yes	14.4		Yes	38		Yes		
	Yes	0.041		Yes	31.9		Yes				5		Yes	6.85		Yes	67		Yes		
	Yes	1.16		Yes	94.2		Yes				93.5		Yes	96.2		Yes	410		Yes		
	Yes	0.232		Yes	27		Yes				7		Yes	15.6		Yes	69		Yes		
	Yes	0.218		Yes	31.1		Yes				4.4		Yes	10.3		Yes	80		Yes		
	Yes	0.131		Yes	34.3		Yes				6.6		Yes	16		Yes	82		Yes		
	Yes	0.018	U	No	48		Yes				3.7		Yes	7.49		Yes	40		Yes		
	Yes	0.354		Yes	46.8		Yes				33		Yes	55.6		Yes	88		Yes		
	Yes	0.069		Yes	28.8		Yes				2.8		Yes	9.73		Yes	35		Yes		
	Yes	0.045		Yes	16		Yes				2.4		Yes	6.71		Yes	30		Yes		
J	Yes	0.02	J	Yes	12		Yes				4	J	Yes	17.2		Yes	20	J	Yes		
	Yes	0.02	U	No	12		Yes				4		Yes	15.7		Yes	20	U	No		
J	Yes	1		Yes	14.1		Yes				4.2		Yes	11.6		Yes	33		Yes		
	Yes	0.14	J	Yes	5.2		Yes				0.12	U	No	9.1		Yes	17	U	No		
	Yes	0.035		Yes	15.9		Yes				2.62		Yes	7.33		Yes	17		Yes		
M	Yes	2.4	BM	Yes	64.4	NJH	Yes	8.9	BM	Yes	28.1	NJH	Yes	55.9	NJH	Yes	310	M	Yes		
M	Yes	0.87	BM	Yes	72.1	M	Yes	9.9	BM	Yes	29.7	M	Yes	45.9	EJ	Yes	300	M	Yes		
M	Yes	0.83	BM	Yes	73.8	M	Yes	10.2	BM	Yes	36.8	M	Yes	48.2	EJ	Yes	390	M	Yes		
		0.203		Yes	56.7		Yes				17.2		Yes	31.2		Yes	160		Yes		
		0.46		Yes	90.8		Yes				29.5		Yes	26.8		Yes	161		Yes		
	Yes	0.344		Yes	45.9		Yes				15.3		Yes	38.6		Yes	166		Yes		
	Yes	0.218		Yes							20.4		Yes				206		Yes		
	Yes	0.95		Yes	34.9		Yes				7.3		Yes	13.5		Yes	42		Yes		
	Yes	2.8		Yes	67.5		Yes				17.5		Yes	35.5		Yes	220		Yes		
	Yes	1.2		Yes	69.4		Yes				17.3		Yes	40.9		Yes	180		Yes		
	Yes	0.98		Yes	78.4		Yes				26.7		Yes	37.3		Yes	260		Yes		
	Yes	0.175		Yes	50.9		Yes				14.2		Yes	20.9		Yes	157		Yes		
CH-C	Yes	1.4	CH-C	Yes	49	CH-C	Yes				11.6	CH-C	Yes	28.4	CH-C	Yes	180		Yes		
CH-C	Yes	1.1	CH-C	Yes	24.3	CH-C	Yes				1.1	CH-C	Yes	12.6	CH-C	Yes	13	CH-C	Yes		
	Yes	0.29	J	Yes	73		Yes				20		Yes	28.7		Yes	170		Yes		
J	Yes	0.07	J	Yes	31		Yes				5	J	Yes	11.3		Yes	20	J	Yes		
U	No	0.02	U	No	2		Yes				1	J	Yes	2.4		Yes	20	U	No		
	Yes	0.2		Yes	93		Yes				16		Yes	14		Yes	40		Yes		
	Yes	0.3		Yes	77		Yes				23		Yes	37.2		Yes	240		Yes		
	Yes	0.1		Yes	82		Yes				15		Yes	19.5		Yes	50		Yes		
	Yes	0.05		Yes	31		Yes				8		Yes	19.4		Yes	70		Yes		
J	Yes	2.4		Yes	33.5		Yes				5.6		Yes	15.6		Yes	40		Yes		
	Yes	1.6		Yes	65.9		Yes				16.7		Yes	42.8		Yes	150		Yes		
	Yes	0.2		Yes													110		Yes		
	Yes	0.025	U	No	7.1		Yes	1		Yes	1.6		Yes	4.6		Yes	10	U	No		

rcury	Nickel			Selenium			Vanadium			Zinc			Benzo(a)anthracene			Benzo(a)pyrene			Dibenzo(a,h)anthracene		
	mg/kg			mg/kg			mg/kg			mg/kg			ug/kg			ug/kg			ug/kg		
detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect
Yes	1.7	J	Yes	0.76	U	No	2.9	J	Yes	12.1		Yes	2	U	No	3	U	No	6	U	No
	1	U	No	1	U	No				7		Yes	1.11		Yes	1.38		Yes	0.25		Yes
	3		Yes	1	U	No				14		Yes	0.58		Yes	0.8		Yes	1	U	No
	0.43		Yes	1	U	No				4.81		Yes	0.15		Yes	0.12		Yes	1	U	No
	17.3		Yes	1	U	No				197		Yes	10.4		Yes	13		Yes	1.59		Yes
	24.3		Yes	1	U	No				451		Yes	20.7		Yes	29		Yes	3.7		Yes
	2.56		Yes	1	U	No				21.4		Yes	0.71		Yes	0.84		Yes	0.14		Yes
	16.8		Yes	1	U	No				123		Yes	69.3		Yes	90.4		Yes	12.1		Yes
	13.7		Yes	1	U	No				82		Yes									
	26.3		Yes	1	U	No				296		Yes	172		Yes	328		Yes	31.6		Yes
	3		Yes	0.42		Yes				23.1		Yes	10	U	No	10	U	No	10	U	No
	24.1		Yes	1.6		Yes				186		Yes	120		Yes	88		Yes	10	U	No
	21		Yes	1.7		Yes				115		Yes	130		Yes	100		Yes	10	U	No
	19.3		Yes	1.5		Yes				140		Yes	430		Yes	420		Yes	59		Yes
	33		Yes	2.4		Yes				267		Yes	260		Yes	240		Yes	10	U	No
	27.8		Yes	1.9		Yes				182		Yes	160		Yes	140		Yes	10	U	No
	17		Yes	0.9		Yes				86.9		Yes	100		Yes	69		Yes	10	U	No
	36.3		Yes	2.4		Yes				280		Yes	56		Yes	42		Yes	10	U	No
	4.7		Yes	0.65		Yes				28.7		Yes	29		Yes	30		Yes	10	U	No
	21		Yes	1		Yes				112		Yes	360		Yes	290		Yes	10	U	No
	4		Yes	0.5		Yes				25.6		Yes	10	U	No	10	U	No	10	U	No
	3.2		Yes	0.59		Yes				14.2		Yes	10	U	No	10	U	No	10	U	No
	5.2		Yes	0.66		Yes				24.3		Yes	10	U	No	10	U	No	10	U	No
	24.9		Yes	1.5		Yes				145		Yes	130		Yes	130		Yes	10	U	No
	21.5		Yes	1.2		Yes				122		Yes	120		Yes	97		Yes	10	U	No
	3.8		Yes	0.69		Yes				19.8		Yes	10	U	No	10	U	No	10	U	No
	4.4		Yes	0.63		Yes				24.1		Yes	10	U	No	10	U	No	10	U	No
	14.1		Yes	0.79		Yes				90	J	Yes	110		Yes	110		Yes	10	U	No
	31		Yes	2		Yes				217	J	Yes	170		Yes	130		Yes	10	U	No
	10.3		Yes	0.83		Yes				64	J	Yes	92		Yes	74		Yes	10	U	No
	26.6		Yes	1.6		Yes				156	J	Yes	110		Yes	96		Yes	10	U	No
	7.3		Yes	0.67		Yes				44.7	J	Yes	43		Yes	34		Yes	10	U	No
	27.5		Yes	1.9		Yes				168	J	Yes	130		Yes	100		Yes	10	U	No
	52		Yes	2.5		Yes				705	J	Yes	1000	J	Yes	820	J	Yes	10	U	No
	24		Yes	1.6		Yes				210	J	Yes	230		Yes	200		Yes	10	U	No
	3.7		Yes	0.42		Yes				22.9	J	Yes	150		Yes	130		Yes	10	U	No
	3		Yes	0.43		Yes				11.4	J	Yes	10	U	No	10	U	No	10	U	No
	2.3		Yes	0.34	U	No				8.9	J	Yes	10	U	No	10	U	No	10	U	No
	26		Yes	1		Yes				173		Yes	260		Yes	0	U	No	0	U	No
	26		Yes	0	U	No				169		Yes	390		Yes	440		Yes	0	U	No
	17		Yes	0	U	No				91		Yes	110		Yes	0	U	No	0	U	No
	3		Yes	0	U	No				23		Yes	0	U	No	0	U	No	0	U	No
	18		Yes	0	U	No				117		Yes	0	U	No	0	U	No	0	U	No
	16		Yes	0	U	No				114		Yes	150		Yes	190		Yes	0	U	No
	13		Yes	0	U	No				77		Yes	110		Yes	130		Yes	0	U	No
	0	U	No	0	U	No				0	U	No	77		Yes	69		Yes	0	U	No
	3		Yes	0	U	No				0	U	No	29		Yes	0	U	No	0	U	No
	2		Yes	0	U	No				0	U	No	0	U	No	0	U	No	0	U	No
	21		Yes	1		Yes				118		Yes	210		Yes	0	U	No	0	U	No
	27		Yes	0	U	No				181		Yes	250		Yes	0	U	No	0	U	No
	25		Yes	1		Yes				168		Yes	220		Yes	330		Yes	0	U	No
	0	U	No	0	U	No				0	U	No	0	U	No	0	U	No	0	U	No
	17		Yes	0	U	No				116		Yes	810		Yes	1100		Yes	160		Yes
	27		Yes	2		Yes				218		Yes	290		Yes	0	U	No	0	U	No
	22		Yes	0	U	No				122		Yes	390		Yes	440		Yes	0	U	No
	5		Yes	0	U	No				32		Yes	0	U	No	0	U	No	0	U	No
	4		Yes	0	U	No				30		Yes	0	U	No	0	U	No	0	U	No
	0	U	No	0	U	No				0	U	No	0	U	No	0	U	No	0	U	No
	27		Yes	2		Yes				195		Yes	290		Yes	380		Yes	0	U	No
	14		Yes	0	U	No				81		Yes	0	U	No	130		Yes	0	U	No
	11		Yes	0	U	No				61		Yes	0	U	No	52		Yes	0	U	No
	8		Yes	0	U	No				31		Yes	0	U	No	0	U	No	0	U	No
	2		Yes	0	U	No				0	U	No	0	U	No	0	U	No	0	U	No
	0	U	No	0	U	No				0	U	No	0	U	No	0	U	No	0	U	No
	5		Yes	0	U	No				0	U	No	0	U	No	0	U	No	0	U	No
	16		Yes	0	U	No				101		Yes	170		Yes	200		Yes	0	U	No
	8.17		Yes	0.21		Yes				30		Yes	36		Yes	31		Yes	12	U	No
	5.05		Yes	0.13		Yes				36		Yes	38		Yes	33		Yes	12	U	No
	17.9		Yes	0.82		Yes				148		Yes	260		Yes	240		Yes	12	U	No

	181		Yes	1.78		Yes				1280		Yes	3200		Yes	3000		Yes	12	U	No
	21.3		Yes	1.31		Yes				212		Yes	210		Yes	270		Yes	12	U	No
	23.2		Yes	1.17		Yes				225		Yes	350		Yes	370		Yes	12	U	No
	6.55		Yes	0.21		Yes				46		Yes	47		Yes	52		Yes	12	U	No
	4.23		Yes	0.18		Yes				39		Yes	18		Yes	16		Yes	12	U	No
	8.75		Yes	0.2		Yes				38		Yes	12	U	No	12	U	No	12	U	No
	12.1		Yes	0.56		Yes				98		Yes	97		Yes	120		Yes	16		Yes
	11.3		Yes	0.34		Yes				67		Yes	100		Yes	110		Yes	20		Yes
	15.9		Yes	0.79		Yes				124		Yes	140		Yes	160		Yes	29		Yes
	2.15		Yes	0.04		Yes				11		Yes	130		Yes	110		Yes	14		Yes
	11.1		Yes	0.29		Yes				65		Yes	220		Yes	140		Yes	14		Yes
	33.3		Yes	5.92		Yes				344		Yes	410		Yes	370		Yes	100		Yes
	25.1		Yes	2.21		Yes				225		Yes	380		Yes	470		Yes	30	U	No
	9.8		Yes	1.85		Yes				83		Yes	29		Yes	30		Yes	24	U	No
	27.7		Yes	6.89		Yes				180		Yes	190		Yes	190		Yes	45		Yes
	3.6		Yes	0.91		Yes				30		Yes	12	U	No	12	U	No	12	U	No
	3.4		Yes	0.43		Yes				15		Yes	100		Yes	57		Yes	34		Yes
	27.1		Yes	4.85		Yes				199		Yes	330		Yes	290		Yes	68		Yes
	4.4		Yes	1.06		Yes				45		Yes	5.2		Yes	4		Yes	12	U	No
	3.2		Yes	0.77		Yes				33		Yes	10		Yes	7.2		Yes	12	U	No
	4.3		Yes	0.1	U	No				30		Yes	27		Yes	24		Yes	16		Yes
	5.2		Yes	0.1	U	No				15		Yes	6.8		Yes	5.6		Yes	12	U	No
	15.2		Yes	3.58		Yes				128		Yes	50		Yes	68		Yes	24	U	No
	4.1		Yes	0.64		Yes				20		Yes	12	U	No	12	U	No	12	U	No
	3.5		Yes	0.38		Yes				13		Yes	69		Yes	31		Yes	12	U	No
	3	J	Yes	0.1	U	No				24		Yes	37		Yes	35		Yes	5.8		Yes
	3		Yes	0.05		Yes				22		Yes	1700		Yes	2300		Yes	440		Yes
	2.2		Yes	0.87	J	Yes				13.1		Yes	13		Yes	12		Yes	1.9	U	No
	0.54	J	Yes	0.43	U	No				4.9		Yes	10	U	No	10	U	No	10	U	No
	4.75		Yes	0.115		Yes				18.5		Yes	123		Yes	104		Yes	19.9		Yes
	29.5	M	Yes	2.3	UM	No	62.2	*M	Yes	155	M	Yes	97	M	Yes	81.6	UJ	No	23.8	NJ	Yes
		R		0.98	UJL	No	69.5	M	Yes		R		106	M	Yes	81	M	Yes	24.1	NJ	Yes
		R		1	UM	No	66.2	M	Yes		R		140	M	Yes	108	M	Yes	33.4	J	Yes
	19.3		Yes							106		Yes									
	30.9		Yes							156		Yes	12		Yes	9	U	No			
	15.9		Yes							68.3		Yes	36.3		Yes						
	21.7		Yes							91.2		Yes	65		Yes	69.6		Yes			
	13.4		Yes	0.54	CH-C	Yes				44.1		Yes	20		Yes	16		Yes	10	U	No
	24.1		Yes	0.64	CH-C	Yes				103		Yes	20		Yes	18		Yes	10	U	No
	26.1		Yes	1.2	CH-C	Yes				117		Yes	10	U	No	10	U	No	10	U	No
	29.7		Yes	2.2	CH-C	Yes				108	CH-C	Yes	12		Yes	0.6	U	No	1.9	U	No
	17.1		Yes	0.255		Yes				74.2		Yes	18.5		Yes	21.1		Yes	4.8		Yes
	18.2	CH-C	Yes	0.68	CH-C	Yes				71.1	CH-C	Yes	22		Yes	18		Yes	1.9	U	No
	6.9	CH-C	Yes	0.66	U	No				32.3	CH-C	Yes	1.1	U	No	0.6	U	No	1.9	U	No
	26		Yes	0.34		Yes				111		Yes	43		Yes	48		Yes	7.2		Yes
	10		Yes	0.19		Yes				41		Yes	82		Yes	81		Yes	11		Yes
	1	J	Yes	0.01	U	No				5		Yes	0.69	U	No	0.1	J	Yes	0.7	U	No
	36		Yes	0.44		Yes				103		Yes	1.5		Yes	0.94	J	Yes	0.17	J	Yes
	27		Yes	0.44		Yes				115		Yes	51		Yes	60		Yes	8		Yes
	32		Yes	0.57		Yes				78		Yes	4.2		Yes	3.2	J	Yes	0.61	J	Yes
	12		Yes	0.29		Yes				60		Yes	16		Yes	19		Yes	3.1		Yes
	11		Yes	0.58	J	Yes				38.1		Yes	1.1	U	No	0.6	U	No	1.9	U	No
	24.8		Yes	1.2	J	Yes				115		Yes	47		Yes	43		Yes	1.9	U	No
				0.3		Yes							7	U	No	7	U	No	7	U	No
	1.7		Yes	0.025	U	No	8.4		Yes	5.9		Yes	1	U	No	1	U	No	1	U	No

Total HPAHs			Total LPAHs			Total PCB Aroclors			Total PCB Congeners			Total PCB Congeners (calc) (historical)			Total PCBs (calc) (historical)			PCB TEQ-B	
ug/kg			ug/kg			ug/kg			ug/kg			ug/kg			ug/kg			ng/kg	
value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual
10	J	Yes	10	J	Yes				2	J	Yes	1.69	CALC	Yes	1.69	CALC	Yes		
12		Yes	4		Yes							1	UCALC_021	No	1	UCALC_021	No		
5.6		Yes	0.62		Yes							3.9	CALC_021	Yes	3.9	CALC_021	Yes		
2.2		Yes	0.65		Yes							12.8	CALC_021	Yes	12.8	CALC_021	Yes		
110		Yes	5		Yes							70.6	CALC_021	Yes	70.6	CALC_021	Yes		
250		Yes	14		Yes							167	CALC_021	Yes	167	CALC_021	Yes		
6.8		Yes	0.37		Yes							6.8	CALC_021	Yes	6.8	CALC_021	Yes		
690		Yes	83		Yes							34.6	CALC_021	Yes	34.6	CALC_021	Yes		
2400		Yes	120		Yes							61.8	CALC_021	Yes	61.8	CALC_021	Yes		
12		Yes	10	U	No														
860		Yes	150		Yes														
930		Yes	180		Yes														
3300	J	Yes	450		Yes														
2200	J	Yes	190		Yes														
1100		Yes	210		Yes														
690		Yes	120		Yes														
430		Yes	84		Yes														
190		Yes	10	U	No														
2500	J	Yes	430		Yes														
28		Yes	10	U	No														
10	U	No	10	U	No														
10	U	No	10	U	No														
1000		Yes	270		Yes														
990		Yes	250		Yes														
15		Yes	10	U	No														
10	U	No	10	U	No														
930		Yes	84		Yes														
1300		Yes	260		Yes														
650		Yes	160		Yes														
840		Yes	180		Yes														
330		Yes	66		Yes														
940		Yes	210		Yes														
5900	J	Yes	1700	J	Yes														
1600		Yes	380		Yes														
1100		Yes	320		Yes														
10	U	No	10	U	No														
10	U	No	10	U	No														
1800		Yes	350		Yes														
3500		Yes	930		Yes														
790		Yes	230		Yes														
0	U	No	0	U	No														
670		Yes	290		Yes														
1300		Yes	340		Yes														
810		Yes	220		Yes														
460		Yes	0	U	No														
110		Yes	0	U	No														
0	U	No	0	U	No														
1500		Yes	330		Yes														
1000		Yes	330		Yes														
2200		Yes	580		Yes														
0	U	No	0	U	No														
7500		Yes	880		Yes														
2500		Yes	510		Yes														
3500		Yes	850		Yes														
200		Yes	40		Yes														
39		Yes	0	U	No														
0	U	No	0	U	No														
2400		Yes	410		Yes														
780		Yes	110		Yes														
310		Yes	57		Yes														
0	U	No	0	U	No														
0	U	No	0	U	No														
0	U	No	0	U	No														
0	U	No	0	U	No														
1700		Yes	420		Yes														
380		Yes	46		Yes										5.69		Yes		
310		Yes	66		Yes										2.87		Yes		
2600		Yes	500		Yes										63.8		Yes		

38000		Yes	14000		Yes										37.2		Yes		
2600		Yes	620		Yes										52.9		Yes		
3800		Yes	870		Yes										86.5		Yes		
450		Yes	68		Yes										4.92		Yes		
170		Yes	49		Yes										2	U	No		
50		Yes	14		Yes										6.2		Yes		
1100		Yes	270		Yes										24.7		Yes		
1100		Yes	280		Yes										22.3		Yes		
1800		Yes	470		Yes										39.4		Yes		
1000		Yes	190		Yes										2	U	No		
2200		Yes	910		Yes										26.4		Yes		
4800		Yes	730		Yes										313		Yes		
5100		Yes	720		Yes										507		Yes		
380		Yes	95		Yes										14.2		Yes		
2100		Yes	440		Yes										116		Yes		
28		Yes	12	U	No										2	U	No		
1100		Yes	200		Yes										2.61		Yes		
3700		Yes	690		Yes										126		Yes		
42		Yes	12	U	No										2	U	No		
77		Yes	13		Yes										2.01		Yes		
320		Yes	63		Yes										5.7		Yes		
53		Yes	12	U	No										2	U	No		
790		Yes	120		Yes										25.8		Yes		
30		Yes	3.5		Yes										2	U	No		
550		Yes	32		Yes										2	U	No		
480	J	Yes	140	J	Yes	36	J	Yes										0.075	J
450	J	Yes	71	J	Yes	110	UM	No										0.08	
700	J	Yes	67	J	Yes	120	UM	No										35	
															5.95		Yes		
			82		Yes										9.97		Yes		
															7.91		Yes		
150		Yes	10	U	No							0.05	UCALC_021	No	0.05	UCALC_021	No		
130		Yes	10	U	No							2.85	CALC_021	Yes	2.85	CALC_021	Yes		
23		Yes	10	U	No							0.05	UCALC_021	No	0.05	UCALC_021	No		
94		Yes	1.5	U	No							0.36	CALC_021	Yes	0.36	CALC_021	Yes		
170		Yes	16		Yes							1	UCALC_021	No	1	UCALC_021	No		
140	J	Yes	8	J	Yes							14	CALC_021	Yes	14	CALC_021	Yes		
2	U	No	1.5	U	No							0.05	UCALC_021	No	0.05	UCALC_021	No		

Bird		PCB TEQ-Fish			PCB TEQ-Mammal			2,3,7,8-TCDD			Dioxin TEQ-Bird			Dioxin TEQ-Fish			Dioxin TEQ-Mammal			Total TEQ-	
		ng/kg			ng/kg			ng/kg			ng/kg			ng/kg			ng/kg			ng/kg	
detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual
							0.52	U	No	1.5	J	Yes	0.47	J	Yes	0.46	J	Yes		
							0.16	U	No	0.16		Yes	0.19		Yes	0.42		Yes		
							4.62		Yes	32	J	Yes	16	J	Yes	17	J	Yes		
							1.55		Yes	12	J	Yes	5.8	J	Yes	6.5	J	Yes		
							3.01		Yes	25	J	Yes	13	J	Yes	15	J	Yes		
							6.03		Yes	59	J	Yes	26	J	Yes	31	J	Yes		
							2.29		Yes	16	J	Yes	6.9	J	Yes	8.1	J	Yes		
							1.96		Yes	11	J	Yes	5.8	J	Yes	6.5	J	Yes		
							6.72		Yes	51	J	Yes	24	J	Yes	28	J	Yes		
							0.31		Yes	2.4	J	Yes	1.6	J	Yes	2.2	J	Yes		
							2.1		Yes	14	J	Yes	6.7	J	Yes	7.7	J	Yes		
							0.34		Yes	2.7	J	Yes	1.2	J	Yes	1.4	J	Yes		
							0.09	J	Yes	0.86	J	Yes	0.57	J	Yes	0.8	J	Yes		
							0.34		Yes	2.8	J	Yes	1.7	J	Yes	2	J	Yes		
							5.05		Yes	26	J	Yes	13	J	Yes	14	J	Yes		
							1.84		Yes	17	J	Yes	9.2	J	Yes	9.7	J	Yes		
							0.3		Yes	2	J	Yes	1.3	J	Yes	1.3	J	Yes		
							0.13	J	Yes	4	J	Yes	3.6	J	Yes	3.2	J	Yes		
							0.9		Yes	7	J	Yes	4	J	Yes	4.7	J	Yes		
							7.86		Yes	50	J	Yes	24	J	Yes	27	J	Yes		
							1.09		Yes	11	J	Yes	5.2	J	Yes	6.6	J	Yes		
							4.2		Yes	26	J	Yes	13	J	Yes	14	J	Yes		
							1.05		Yes	8.6	J	Yes	4.4	J	Yes	4.8	J	Yes		
							4.47		Yes	29	J	Yes	13	J	Yes	16	J	Yes		
							7.73		Yes	110	J	Yes	84	J	Yes	110	J	Yes		
							3.24		Yes	28	J	Yes	13	J	Yes	15	J	Yes		
							0.18		Yes	1.9	J	Yes	0.75	J	Yes	0.9	J	Yes		
							0.13	U	No	0.17	J	Yes	0.031	J	Yes	0.048	J	Yes		
							0.09	J	Yes	0.26	J	Yes	0.11	J	Yes	0.15	J	Yes		
							0	U	No	7		Yes	0.67		Yes	1.7		Yes		
							0	U	No	26		Yes	4.5		Yes	11		Yes		
							0	U	No	7.8		Yes	0.6		Yes	1.5		Yes		
							0	U	No	2		Yes	0.15		Yes	0.36		Yes		
							0	U	No	3.9		Yes	0.33		Yes	0.82		Yes		
							0	U	No	4.8		Yes	0.39		Yes	0.99		Yes		
							6.39		Yes	21		Yes	8.4		Yes	10		Yes		
							0.26		Yes	1.5		Yes	0.36		Yes	0.46		Yes		
							0	U	No	0.019		Yes	0.019		Yes	0.12		Yes		
							0	U	No	0.0011		Yes	0.0011		Yes	0.0033		Yes		
							0	U	No	39		Yes	9.2		Yes	15		Yes		
							0	U	No	2.7		Yes	0.31		Yes	0.87		Yes		
							7.73		Yes	37		Yes	18		Yes	19		Yes		
							0	U	No	0.0068		Yes	0.0068		Yes	0.046		Yes		
							7.05		Yes	32		Yes	11		Yes	15		Yes		
							8.01		Yes	92		Yes	39		Yes	51		Yes		
							7.41		Yes	40		Yes	11		Yes	16		Yes		
							0	U	No	3.5		Yes	0.28		Yes	0.69		Yes		
							0.53		Yes	3.2		Yes	0.89		Yes	1.2		Yes		
							0	U	No	1.5		Yes	0.08		Yes	0.18		Yes		
							0	U	No	18		Yes	1.9		Yes	4.7		Yes		
							0.84		Yes	3.9		Yes	1.2		Yes	1.7		Yes		
							1.1		Yes	11		Yes	3.1		Yes	3.8		Yes		
							0.61		Yes	4.6		Yes	1.2		Yes	2		Yes		
							0	U	No	2.1		Yes	0.15		Yes	0.34		Yes		
							0	U	No	1.3		Yes	0.081		Yes	0.18		Yes		
							0	U	No	1.7		Yes	0.13		Yes	0.33		Yes		
							5.1		Yes	26		Yes	7.9		Yes	10		Yes		
							0.258		Yes	2.6		Yes	1.2		Yes	1.2		Yes		
							0.296		Yes	4.8		Yes	2.2		Yes	2.1		Yes		
							4.29		Yes	38		Yes	16		Yes	19		Yes		

							16.8		Yes	120		Yes	76		Yes	120		Yes		
							17.7		Yes	82		Yes	47		Yes	46		Yes		
							7.85		Yes	54		Yes	20		Yes	28		Yes		
							0.32		Yes	4.4		Yes	2.1		Yes	2		Yes		
							0.345		Yes	3.6		Yes	1.8		Yes	1.9		Yes		
							0.129		Yes	2.7		Yes	1.6		Yes	1.4		Yes		
							2.71		Yes	29		Yes	9.5		Yes	12		Yes		
							2.55		Yes	18		Yes	6		Yes	8		Yes		
							5.84		Yes	50		Yes	20		Yes	23		Yes		
							0.107		Yes	1.9		Yes	0.82		Yes	0.81		Yes		
							2.35		Yes	20		Yes	6.7		Yes	8.5		Yes		
							5.25		Yes	77		Yes	33		Yes	38		Yes		
							1.11		Yes	33		Yes	12		Yes	17		Yes		
							0.845		Yes	9.8		Yes	6.7		Yes	5.1		Yes		
							5		Yes	79		Yes	32		Yes	34		Yes		
							0.107		Yes	2.7		Yes	1.4		Yes	1.4		Yes		
							0.122		Yes	2.3		Yes	1.1		Yes	1.1		Yes		
							38.9		Yes	98		Yes	55		Yes	62		Yes		
							0.116		Yes	2.6		Yes	1.1		Yes	1.2		Yes		
							1.85		Yes	3.7		Yes	3.2		Yes	3.2		Yes		
							0.38		Yes	6.5		Yes	2.2		Yes	2.4		Yes		
							0.157		Yes	2		Yes	1.2		Yes	1.2		Yes		
							0.656		Yes	21		Yes	7.8		Yes	9.6		Yes		
							0.099		Yes	1.7		Yes	0.72		Yes	0.8		Yes		
							0.729		Yes	3.8		Yes	3.2		Yes	2.4		Yes		
Yes	0.011	J	Yes	0.068	J	Yes	2.69	U	No	12		Yes	0.87		Yes	2.2		Yes	12	J
Yes	0.013		Yes	0.076		Yes	2.79	UJ	No	8.1	J	Yes	0.74	J	Yes	2.2	J	Yes	8.2	J
Yes	0.086		Yes	0.16		Yes	4.45	UJ	No	10	J	Yes	0.9	J	Yes	2.5	J	Yes	46	J

Bird	Total TEQ-Fish			Total TEQ-Mammal			Total DDx		
	ng/kg			ng/kg			ug/kg		
detect	value	qual	detect	value	qual	detect	value	qual	detect
							0.32	J	Yes
							1	U	No
							1		Yes
							11		Yes
							10		Yes
							1.6	U	No
							7.9		Yes
							23		Yes
							0.99	J	Yes
							3	J	Yes
							2.8	J	Yes
							8.6	J	Yes
							45	J	Yes
							2.7	J	Yes
							7.4	J	Yes
							7.4	J	Yes
							17		Yes
							0.5	U	No
							1.8	J	Yes
							0.5	U	No
							0.77	J	Yes
							3.1	J	Yes
							2.6	J	Yes
							2.5	J	Yes
							0.5	U	No
							0.5	U	No
							11	J	Yes
							9	J	Yes
							2.6	J	Yes
							14	J	Yes
							2.8	J	Yes
							11	J	Yes
							41	J	Yes
							9	J	Yes
							1.2	J	Yes
							0.5	U	No
							0.5	U	No
							6.5		Yes
							19		Yes
							6.7		Yes
							0	U	No
							6.1		Yes
							3.7		Yes
							0	U	No
							0	U	No
							0	U	No
							0	U	No
							1.3		Yes
							0	U	No
							0	U	No
							0	U	No
							0	U	No
							0	U	No
							0	U	No
							15		Yes
							7.1		Yes
							1.7		Yes
							0	U	No
							0	U	No
							20		Yes
							0	U	No
							2.6		Yes
							1.8		Yes
							1.5		Yes
							1.4		Yes
							6.1		Yes
							5.8		Yes
							0.4		Yes
							0.43		Yes
							9.5		Yes

							40		Yes
							8.3		Yes
							13		Yes
							0.44		Yes
							0.32		Yes
							0.29		Yes
							1.9		Yes
							3.3		Yes
							5.2		Yes
							0.58		Yes
							4.4		Yes
							20		Yes
							25		Yes
							2		Yes
							11		Yes
							0.16		Yes
							0.17		Yes
							13		Yes
							0.24		Yes
							0.45		Yes
							1.3		Yes
							0.34		Yes
							3.4		Yes
							0.21		Yes
							0.17		Yes
							0.69		Yes
							1		Yes
							0.92		No
							0.92		No
							1		No
Yes	0.88	J	Yes	2.2	J	Yes			
Yes	0.75	J	Yes	2.2	J	Yes			
Yes	0.99	J	Yes	2.7	J	Yes			
							0.32	J	Yes
							2.3		Yes
							0.92	U	No
							0.34	U	No
							1	U	No
							0.88	J	Yes
							0.34	U	No
							3		Yes
							0.88		Yes
							0.031		Yes
							0.37		Yes
							4.9		Yes
							0.46		Yes
							2.6		Yes
							0.92		No
							2.7		Yes
							0.17		No
							1	U	No

BERA Sediment Chemistry Data for the Regional Datasets

Qualifier	Definition
B	analyte detected in blank
C	result may be affected by interference
E	result outside calibration range
EMPC	estimated maximum possible concentration
J	estimated concentration
M	estimated concentration
N	tentative identification
R	rejected
U	not detected
V	blank corrected mercury data

BERA Tissue Chemistry Data for the Regional Dataset

Area_of_Interest	pecies_Grou	pecies_Commo	Tissue_Type
Jamaica Bay	Killifish	Mummichog	Whole body
Lower Harbor	Killifish	Mummichog	Whole body
Lower Harbor	Killifish	Mummichog	Whole body
Lower Harbor	Killifish	Mummichog	Whole body
Lower Harbor	Killifish	Mummichog	Whole body
Lower Harbor	Killifish	Mummichog	Whole body
Lower Harbor	Killifish	Mummichog	Whole body
Mullica River and Great Bay	Killifish	Mummichog	Whole body
Mullica River and Great Bay	Killifish	Mummichog	Whole body
Mullica River and Great Bay	Killifish	Mummichog	Whole body
Mullica River and Great Bay	Killifish	Mummichog	Whole body
Mullica River and Great Bay	Killifish	Mummichog	Whole body
Mullica River and Great Bay	Killifish	Mummichog	Whole body
Mullica River and Great Bay	Killifish	Mummichog	Whole body
Mullica River and Great Bay	Killifish	Mummichog	Whole body
Mullica River and Great Bay	Killifish	Mummichog	Whole body
Mullica River and Great Bay	Killifish	Mummichog	Whole body
Mullica River and Great Bay	Killifish	Mummichog	Whole body
Mullica River and Great Bay	Killifish	Mummichog	Whole body

Event	Sample_Date	SampleID	Arsenic mg/kg value	qual	detect
Harbor Fish Collection (Fall 1999)	01-Nov-99	2DMR00330			
Harbor Fish Collection (Fall 1999)	16-Nov-99	2DMR00334			
Harbor Fish Collection (Summer 1999)	30-Sep-99	2DMR00166			
Harbor Fish Collection (Summer 1999)	30-Sep-99	2DMR00167			
Harbor Fish Collection (Summer 1999)	30-Sep-99	2DMR00168			
Harbor Fish Collection (Summer 1999)	30-Sep-99	2DMR00169			
Harbor Fish Collection (Summer 1999)	30-Sep-99	2DMR00170			
1999 Late Summer/Early Fall RI-ESP Sampling Progra	21-Oct-99	MR9921TIMWL			
1999 Late Summer/Early Fall RI-ESP Sampling Progra	21-Oct-99	MR9921TIMWM			
1999 Late Summer/Early Fall RI-ESP Sampling Progra	21-Oct-99	MR9921TIMWU	0.31	U	No
1999 Late Summer/Early Fall RI-ESP Sampling Progra	21-Oct-99	MR9922TIMWL	0.31	U	No
1999 Late Summer/Early Fall RI-ESP Sampling Progra	21-Oct-99	MR9922TIMWM	0.31	U	No
1999 Late Summer/Early Fall RI-ESP Sampling Progra	21-Oct-99	MR9922TIMWU	0.31	U	No
1999 Late Summer/Early Fall RI-ESP Sampling Progra	21-Oct-99	MR9923TIMWL	0.84	B	Yes
1999 Late Summer/Early Fall RI-ESP Sampling Progra	21-Oct-99	MR9923TIMWM	0.69	B	Yes
1999 Late Summer/Early Fall RI-ESP Sampling Progra	21-Oct-99	MR9923TIMWU	0.96	B	Yes
2000 Spring RI-ESP Sampling Program	17-May-00	MR0022TIMWL	0.45	B	Yes
2000 Spring RI-ESP Sampling Program	17-May-00	MR0022TIMWM	0.29	U	No
2000 Spring RI-ESP Sampling Program	17-May-00	MR0022TIMWU	0.29	U	No

Cadmium			Cobalt			Copper			Lead			Mercury			Methyl me	
mg/kg			mg/kg			mg/kg			mg/kg			ug/kg			ug/kg	
value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual
0.00127	U	No										14.6	J	Yes		
0.00558		Yes										51.3		Yes		
0.00151	J	Yes										55.8		Yes	71.4	V
0.00179	J	Yes										43.2		Yes		
0.00402	J	Yes										59.5		Yes		
0.00128	J	Yes										51.5		Yes	69.2	V
0.00354	J	Yes										76.7		Yes		
0.051	U	No	0.11	U	No	3.9	J	Yes	0.26	U	No	38	NJL	Yes		
0.066	B	Yes	0.11	U	No	3.8	J	Yes		R		8	BNJL	Yes		
0.05	U	No	0.11	U	No	3.9	J	Yes		R		9.6	BNJL	Yes		
0.063	B	Yes	0.11	U	No	3.9	J	Yes		R		6.8	BNJL	Yes		
0.051	U	No	0.11	U	No	2.7	J	Yes		R		26	NJL	Yes		
0.063	B	Yes	0.11	U	No	3.8	J	Yes		R		23	NJL	Yes		
0.053	B	Yes	0.11	U	No	3.2	J	Yes	0.25	U	No	30	NJL	Yes		
0.055	B	Yes	0.12	U	No	3.7		Yes	0.23	BJH	Yes	16	B	Yes		
0.05	B	Yes	0.12	U	No	4.2		Yes	0.2	BJH	Yes	8.3	B	Yes		
0.041	U	No	0.12	U	No	6		Yes	0.16	BJH	Yes	15	B	Yes		

rcury	Nickel			Selenium			Vanadium			Benzo(a)pyrene			Total HPAHs			Total
	mg/kg			mg/kg			mg/kg			ug/kg			ug/kg			
detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value
										3.04	JB	Yes	29	J	Yes	52
										2.31	JKB	Yes	17	J	Yes	410
Yes										0.661	JB	Yes	13	J	Yes	920
										0.491	JB	Yes	16	J	Yes	1000
										4.76	U	No	12	J	Yes	2100
Yes										1.44	JKB	Yes	17	J	Yes	970
										0.497	JKB	Yes	14	J	Yes	1900
	0.14	U	No	0.36	B	Yes	0.12	B	Yes	10	U	No	15	UJ	No	150
	0.14	U	No	0.37	B	Yes	0.12	B	Yes	10	U	No	15	UJ	No	150
	0.14	U	No	0.52		Yes	0.2	B	Yes	10	U	No	15	UJ	No	150
	0.14	U	No	0.65		Yes	0.091	B	Yes	10	U	No	15	UJ	No	150
	0.14	U	No	0.45	B	Yes	0.21	B	Yes	10	UJ	No	15	UJ	No	150
	0.14	U	No	0.46	B	Yes	0.19	B	Yes	10	UJ	No	15	UJ	No	150
	0.14	U	No	0.42	B	Yes	0.25	B	Yes	10	UJ	No	15	UJ	No	150
	0.17	B	Yes	0.34	B	Yes	0.26	B	Yes	10	U	No	15	UJ	No	150
	0.19	B	Yes	0.54		Yes	0.3	B	Yes	10	U	No	15	UJ	No	150
	0.13	U	No	0.59		Yes	0.16	B	Yes	10	U	No	15	UJ	No	150

PCB Aroclors		Total PCB Congeners			Total PCB Congeners (histo			PCB TEQ-Bird			PCB TEQ-Fish			PCB TEQ-Mammal		
ug/kg		ug/kg			ug/kg			ng/kg			ng/kg			ng/kg		
qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect
J	Yes	55	J	Yes	73.7		Yes	0.11	J	Yes	0.0079	J	Yes	0.047	J	Yes
	Yes	370	J	Yes	380		Yes	210	J	Yes	4.2	J	Yes	70	J	Yes
	Yes	1000	J	Yes	1020		Yes	320		Yes	1.7		Yes	29	J	Yes
	Yes	1300	J	Yes	1280		Yes	350		Yes	2		Yes	30	J	Yes
	Yes	3200	J	Yes	3180		Yes	1100		Yes	13		Yes	240		Yes
	Yes	770	J	Yes	778		Yes	240		Yes	1.3		Yes	31	J	Yes
	Yes	1600	J	Yes	1620		Yes	410		Yes	2.3		Yes	31	J	Yes
								3.4	J	Yes	0.18	J	Yes	3.4	J	Yes
UJ	No							3.2	J	Yes	0.17	J	Yes	3.1	J	Yes
U	No							4.9	J	Yes	0.17	J	Yes	3.1	J	Yes
U	No							3.1	J	Yes	0.16	J	Yes	3.1	J	Yes
U	No							4.9	J	Yes	0.17	J	Yes	3.2	J	Yes
U	No							5.6	J	Yes	0.18	J	Yes	3.2	J	Yes
U	No							5.8	J	Yes	0.18	J	Yes	3.2	J	Yes
U	No							5.5	J	Yes	0.18	J	Yes	3.2	J	Yes
U	No							3	J	Yes	0.15	J	Yes	8.8	J	Yes
U	No															
U	No							3	J	Yes	0.16	J	Yes	3	J	Yes

2,3,7,8-TCDD			Dioxin TEQ-Bird			Dioxin TEQ-Fish			Dioxin TEQ-Mammal			Total TEQ-Bird			Total TEQ-	
ng/kg			ng/kg			ng/kg			ng/kg			ng/kg			ng/kg	
value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual
9.85	U	No	26	J	Yes	25	J	Yes	25	J	Yes	28	J	Yes	25	J
1.49	J	Yes	30	J	Yes	16	J	Yes	12	J	Yes	220	J	Yes	20	J
5.24		Yes	10	J	Yes	7.1		Yes	7		Yes	330		Yes	8.9	
8.02		Yes	13		Yes	10		Yes	9.7		Yes	370		Yes	12	
7.14		Yes	11		Yes	8.8		Yes	8.6		Yes	1100		Yes	22	
7.92		Yes	12		Yes	9.6		Yes	9.5		Yes	250		Yes	11	
7.4		Yes	13		Yes	9.6		Yes	9.5		Yes	430		Yes	12	
0.194	U	No	0.36		Yes	0.018		Yes	0.036		Yes	3.9	J	Yes	0.26	J
0.399	U	No	0.94	U	No	0.94	U	No	0.94	U	No					
0.123	U	No	0.35	J	Yes	0.36	J	Yes	0.31	J	Yes	3.7	J	Yes	0.39	J
0.211	U	No	0.44		Yes	0.022		Yes	0.044		Yes	5.5	J	Yes	0.25	J
0.22	U	No	0.7	J	Yes	0.47	J	Yes	0.48	J	Yes	4	J	Yes	0.49	J
0.18	U	No	0.43		Yes	0.022		Yes	0.043		Yes	5.4	J	Yes	0.25	J
0.316	U	No	0.53		Yes	0.027		Yes	0.053		Yes	6.3	J	Yes	0.37	J
0.216	U	No	0.55		Yes	0.028		Yes	0.055		Yes	6.5	J	Yes	0.29	J
0.19	U	No	0.44		Yes	0.022		Yes	0.045		Yes	6.1	J	Yes	0.27	J
0.13	U	No	0.14	J	Yes	0.14	J	Yes	0.16	J	Yes	3.4	J	Yes	0.18	J
0.166	U	No	0.39	J	Yes	0.22	J	Yes	0.22	J	Yes					
0.11	U	No	0.24		Yes	0.16	J	Yes	0.16	J	Yes	3.5	J	Yes	0.23	J

-Fish	Total TEQ-Mammal			Dieldrin			Total DDx			Lipids		
	ng/kg			ug/kg			ug/kg			%		
detect	value	qual	detect	value	qual	detect	value	qual	detect	value	qual	detect
Yes	27	J	Yes	2.16		Yes	10		Yes			
Yes	74	J	Yes	8.91		Yes	75		Yes			
Yes	38	J	Yes	14.6		Yes	170		Yes			
Yes	40	J	Yes	13.7		Yes	130		Yes			
Yes	250		Yes	34.3		Yes	240		Yes			
Yes	43	J	Yes	10.4		Yes	130		Yes			
Yes	41	J	Yes	15.2		Yes	120		Yes			
Yes	3.6	J	Yes							2.36		Yes
										2.67		Yes
Yes	3.4	J	Yes	3.3	UJ	No				2.22		Yes
Yes	3.4	J	Yes	3.3	U	No				4.39		Yes
Yes	3.4	J	Yes	3.3	U	No				4.52		Yes
Yes	3.4	J	Yes	0.92	G	Yes				4.16		Yes
Yes	3.4	J	Yes	3.3	U	No				3.39		Yes
Yes	3.4	J	Yes	3.3	U	No				3.22		Yes
Yes	3.4	J	Yes	3.3	U	No				3.47		Yes
Yes	9.5	J	Yes	3.3	U	No				2.22		Yes
				3.3	U	No				2.28		Yes
Yes	3.3	J	Yes	3.3	U	No				2.48		Yes

BERA Tissue Chemistry Data for the Regional Dataset

Qualifier	Definition
B	indicates blank contamination
K	estimated maximum possible concentration
J	estimated concentration
L	not defined in source dataset
N	tentative identification
ND	not detected
R	rejected
U	not detected at given concentration

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-1	2200_26_JB002	40.63626	-73.79741	9/14/1993	Streblospio benedicti	1	48	1200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-1	2200_26_JB002	40.63626	-73.79741	9/14/1993	Polydora cornuta	1	42	1050	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-1	2200_26_JB002	40.63626	-73.79741	9/14/1993	Pectinaria gouldii	1	36	900	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-1	2200_26_JB002	40.63626	-73.79741	9/14/1993	Neanthes succinea	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-1	2200_26_JB002	40.63626	-73.79741	9/14/1993	Mercenaria mercenaria	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-1	2200_26_JB002	40.63626	-73.79741	9/14/1993	Capitella spp.	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-1	2200_26_JB002	40.63626	-73.79741	9/14/1993	Odostomia spp.	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-1	2200_26_JB002	40.63626	-73.79741	9/14/1993	Podarke obscura	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-1	2200_26_JB002	40.63626	-73.79741	9/14/1993	Spio setosa	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-1	2200_26_JB002	40.63626	-73.79741	9/14/1993	Gemma gemma	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-1	2200_26_JB002	40.63626	-73.79741	9/14/1993	Hypereteone heteropoda	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-1	2200_26_JB002	40.63626	-73.79741	9/14/1993	Oligochaeta	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-1	2200_26_JB002	40.63626	-73.79741	9/14/1993	Crepidula fornicata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-1	2200_26_JB002	40.63626	-73.79741	9/14/1993	Hesionidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-1	2200_26_JB002	40.63626	-73.79741	9/14/1993	Ovalipes ocellatus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-1	2200_26_JB002	40.63626	-73.79741	9/14/1993	Petricola pholadiformis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-1	2200_26_JB002	40.63626	-73.79741	9/14/1993	Podarkeopsis levifuscina	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-2	2200_26_JB002	40.63626	-73.79741	9/14/1993	Pectinaria gouldii	1	16	400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-2	2200_26_JB002	40.63626	-73.79741	9/14/1993	Spio setosa	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-2	2200_26_JB002	40.63626	-73.79741	9/14/1993	Polydora cornuta	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-2	2200_26_JB002	40.63626	-73.79741	9/14/1993	Streblospio benedicti	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-2	2200_26_JB002	40.63626	-73.79741	9/14/1993	Gemma gemma	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-2	2200_26_JB002	40.63626	-73.79741	9/14/1993	Crepidula fornicata	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-2	2200_26_JB002	40.63626	-73.79741	9/14/1993	Odostomia spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-2	2200_26_JB002	40.63626	-73.79741	9/14/1993	Podarkeopsis levifuscina	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-2	2200_26_JB002	40.63626	-73.79741	9/14/1993	Heteromastus filiformis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-2	2200_26_JB002	40.63626	-73.79741	9/14/1993	Leitoscoloplos robustus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-2	2200_26_JB002	40.63626	-73.79741	9/14/1993	Mediomastus ambiseta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-2	2200_26_JB002	40.63626	-73.79741	9/14/1993	Mercenaria mercenaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-2	2200_26_JB002	40.63626	-73.79741	9/14/1993	Neanthes arenaceodentata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-2	2200_26_JB002	40.63626	-73.79741	9/14/1993	Neanthes succinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-2	2200_26_JB002	40.63626	-73.79741	9/14/1993	Neomysis americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-2	2200_26_JB002	40.63626	-73.79741	9/14/1993	Nereididae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-2	2200_26_JB002	40.63626	-73.79741	9/14/1993	Nucula annulata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-2	2200_26_JB002	40.63626	-73.79741	9/14/1993	Podarke obscura	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB002	JB002-2	2200_26_JB002	40.63626	-73.79741	9/14/1993	Streptosyllis pettiboneae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Streblospio benedicti	1	812	20300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Mediomastus ambiseta	1	219	5475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Oligochaeta	1	99	2475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Mercenaria mercenaria	1	36	900	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Leitoscoloplos spp.	1	18	450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Tharyx sp. A Morris	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Pectinaria gouldii	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Dyspanopeus sayi	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Hypereteone heteropoda	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Ilyanassa obsoleta	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Rictaxis punctostriatus	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Eumida sanguinea	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Boonea bisuturalis	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Sabellaria vulgaris	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Ampelisca abdita-vadorum complex	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Corophium tuberculatum	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Neanthes arenaceodentata	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Spiochaetopterus costarum	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Gemma gemma	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Crepidula spp.	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Podarke obscura	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Ampelisca abdita	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Eobrolgus spinosus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Glycera spp.	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Hydroides dianthus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Lysianopsis alba	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Odostomia spp.	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Elasmopus laevis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Glycera dibranchiata	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Melita nitida	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Nereididae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Ericthonius brasiliensis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Mya arenaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Neanthes succinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Paracaprella tenuis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Polydora cornuta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-1	2200_26_JB006	40.60840	-73.77277	9/16/1993	Spio setosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Streblospio benedicti	1	849	21225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Mediomastus ambiseta	1	254	6350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Oligochaeta	1	89	2225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Ampelisca abdita-vadorum complex	1	69	1725	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Mercenaria mercenaria	1	43	1075	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Ilyanassa obsoleta	1	38	950	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Elasmopus laevis	1	29	725	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Rictaxis punctostriatus	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Leitoscoloplos spp.	1	16	400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Pectinaria gouldii	1	15	375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Corophium tuberculatum	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Lysianopsis alba	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Ampelisca abdita	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Spio setosa	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Neanthes arenaceodentata	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Tharyx sp. A Morris	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Eumida sanguinea	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Gemma gemma	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Heteromastus filiformis	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Melita nitida	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Crepidula spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Glycera americana	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Glycera spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Hypereteone heteropoda	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Podarke obscura	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Sabellaria vulgaris	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Scoletoma tenuis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Boonea bisuturalis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Demonax microphthalmus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Hydroides dianthus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Lumbrineridae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Scolelepis texana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB006	JB006-2	2200_26_JB006	40.60840	-73.77277	9/16/1993	Spiochaetopterus costarum	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB008-1	2200_26_JB008	40.64119	-73.81560	9/14/1993	Capitella spp.	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB008-1	2200_26_JB008	40.64119	-73.81560	9/14/1993	Ampelisca abdita-vadorum complex	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB008-1	2200_26_JB008	40.64119	-73.81560	9/14/1993	Corophium tuberculatum	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB008-1	2200_26_JB008	40.64119	-73.81560	9/14/1993	Oligochaeta	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB008-1	2200_26_JB008	40.64119	-73.81560	9/14/1993	Microdeutopus gryllotalpa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB008-1	2200_26_JB008	40.64119	-73.81560	9/14/1993	Podarke obscura	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB008-1	2200_26_JB008	40.64119	-73.81560	9/14/1993	Streblospio benedicti	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB008-2	2200_26_JB008	40.64119	-73.81560	9/14/1993	Streblospio benedicti	1	53	1325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB008-2	2200_26_JB008	40.64119	-73.81560	9/14/1993	Capitella spp.	1	24	600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB008-2	2200_26_JB008	40.64119	-73.81560	9/14/1993	Polydora cornuta	1	18	450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB008-2	2200_26_JB008	40.64119	-73.81560	9/14/1993	Podarke obscura	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB008-2	2200_26_JB008	40.64119	-73.81560	9/14/1993	Oligochaeta	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB008-2	2200_26_JB008	40.64119	-73.81560	9/14/1993	Ampelisca abdita-vadorum complex	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB008-2	2200_26_JB008	40.64119	-73.81560	9/14/1993	Corophium tuberculatum	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB008-2	2200_26_JB008	40.64119	-73.81560	9/14/1993	Mediomastus ambiseta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB008-2	2200_26_JB008	40.64119	-73.81560	9/14/1993	Pectinaria gouldii	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB012	JB012-1	2200_26_JB012	40.64857	-73.88967	9/24/1993	Capitella spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB012	JB012-1	2200_26_JB012	40.64857	-73.88967	9/24/1993	Streblospio benedicti	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB012	JB012-2	2200_26_JB012	40.64857	-73.88967	9/24/1993	Chironomidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB012	JB012-2	2200_26_JB012	40.64857	-73.88967	9/24/1993	Polychaeta: Other - Unidentified & fr	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB015	JB015-1	2200_26_JB015	40.62628	-73.79364	9/15/1993	Ilyanassa obsoleta	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB015	JB015-1	2200_26_JB015	40.62628	-73.79364	9/15/1993	Mediomastus ambiseta	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB015	JB015-1	2200_26_JB015	40.62628	-73.79364	9/15/1993	Ampelisca abdita	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB015	JB015-1	2200_26_JB015	40.62628	-73.79364	9/15/1993	Streblospio benedicti	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB015	JB015-2	2200_26_JB015	40.62628	-73.79364	9/15/1993	Ampelisca abdita-vadorum complex	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB015	JB015-2	2200_26_JB015	40.62628	-73.79364	9/15/1993	Oligochaeta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB015	JB015-2	2200_26_JB015	40.62628	-73.79364	9/15/1993	Polydora cornuta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB015	JB015-2	2200_26_JB015	40.62628	-73.79364	9/15/1993	Polydora spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-1	2200_26_JB018	40.60879	-73.78565	9/15/1993	Ampelisca abdita-vadorum complex	1	311	7775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-1	2200_26_JB018	40.60879	-73.78565	9/15/1993	Ampelisca abdita	1	254	6350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-1	2200_26_JB018	40.60879	-73.78565	9/15/1993	Corophium tuberculatum	1	67	1675	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-1	2200_26_JB018	40.60879	-73.78565	9/15/1993	Polydora cornuta	1	18	450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-1	2200_26_JB018	40.60879	-73.78565	9/15/1993	Capitella spp.	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-1	2200_26_JB018	40.60879	-73.78565	9/15/1993	Pectinaria gouldii	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-1	2200_26_JB018	40.60879	-73.78565	9/15/1993	Turbellaria	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-1	2200_26_JB018	40.60879	-73.78565	9/15/1993	Crangon septemspinosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-1	2200_26_JB018	40.60879	-73.78565	9/15/1993	Hypereteone heteropoda	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-1	2200_26_JB018	40.60879	-73.78565	9/15/1993	Leitoscoloplos spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-1	2200_26_JB018	40.60879	-73.78565	9/15/1993	Neomysis americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-1	2200_26_JB018	40.60879	-73.78565	9/15/1993	Podarke obscura	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-2	2200_26_JB018	40.60879	-73.78565	9/15/1993	Ampelisca abdita-vadorum complex	1	574	14350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-2	2200_26_JB018	40.60879	-73.78565	9/15/1993	Ampelisca abdita	1	318	7950	0.04

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-2	2200_26_JB018	40.60879	-73.78565	9/15/1993	Corophium tuberculatum	1	118	2950	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-2	2200_26_JB018	40.60879	-73.78565	9/15/1993	Neomysis americana	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-2	2200_26_JB018	40.60879	-73.78565	9/15/1993	Polydora cornuta	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-2	2200_26_JB018	40.60879	-73.78565	9/15/1993	Pectinaria gouldii	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-2	2200_26_JB018	40.60879	-73.78565	9/15/1993	Streblospio benedicti	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-2	2200_26_JB018	40.60879	-73.78565	9/15/1993	Podarke obscura	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-2	2200_26_JB018	40.60879	-73.78565	9/15/1993	Polydora spp.	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-2	2200_26_JB018	40.60879	-73.78565	9/15/1993	Crangon septemspinosa	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-2	2200_26_JB018	40.60879	-73.78565	9/15/1993	Nereididae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-2	2200_26_JB018	40.60879	-73.78565	9/15/1993	Hypereteone heteropoda	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-2	2200_26_JB018	40.60879	-73.78565	9/15/1993	Leitoscoloplos spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-2	2200_26_JB018	40.60879	-73.78565	9/15/1993	Mediomastus ambiseta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-2	2200_26_JB018	40.60879	-73.78565	9/15/1993	Neanthes succinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-2	2200_26_JB018	40.60879	-73.78565	9/15/1993	Podarkeopsis levifuscina	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB018-2	2200_26_JB018	40.60879	-73.78565	9/15/1993	Turbellaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Elasmopus laevis	1	356	8900	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Streblospio benedicti	1	186	4650	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Melita nitida	1	101	2525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Oligochaeta	1	76	1900	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Dyspanopeus sayi	1	27	675	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Boonea bisuturalis	1	21	525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Capitella spp.	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Lysianopsis alba	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Mediomastus ambiseta	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Microdeutopus gryllotalpa	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Tharyx sp. A Morris	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Ampelisca abdita	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Corophium tuberculatum	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Podarke obscura	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Heteromysis formosa	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Leitoscoloplos spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Paracaprella tenuis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Polydora cornuta	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Aricidea catherinae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Crepidula spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Hypereteone heteropoda	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Nucula annulata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Palaemonetes intermedius	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Pectinaria gouldii	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-1	2200_26_JB022	40.60413	-73.77918	9/17/1993	Syllidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Streblospio benedicti	1	768	19200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Oligochaeta	1	136	3400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Mediomastus ambiseta	1	113	2825	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Boonea bisuturalis	1	65	1625	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Ilyanassa obsoleta	1	33	825	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Tharyx sp. A Morris	1	21	525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Leitoscoloplos spp.	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Crepidula spp.	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Elasmopus laevis	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Eumida sanguinea	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Leitoscoloplos robustus	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Ampelisca abdita	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Polydora cornuta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Capitella spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Microdeutopus gryllotalpa	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Spio setosa	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Ampelisca abdita-vadorum complex	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Corophium tuberculatum	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Exogone dispar	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Pectinaria gouldii	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Streptosyllis pettiboneae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB022	JB022-2	2200_26_JB022	40.60413	-73.77918	9/17/1993	Xanthidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Streblospio benedicti	1	332	8300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Corophium tuberculatum	1	327	8175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Eobrolgus spinosus	1	234	5850	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Elasmopus laevis	1	92	2300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Sabellaria vulgaris	1	81	2025	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Microdeutopus gryllotalpa	1	49	1225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Exogone dispar	1	43	1075	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Mediomastus ambiseta	1	39	975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Oligochaeta	1	37	925	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Lysianopsis alba	1	35	875	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Crepidula fornicata	1	27	675	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Neanthes arenaceodentata	1	27	675	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Tharyx sp. A Morris	1	26	650	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Mercenaria mercenaria	1	23	575	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Dyspanopeus sayi	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Hypereteone heteropoda	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Aricidea catherinae	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Eumida sanguinea	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Phyllodoce arenae	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Unciola spp.	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Hydroides dianthus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Leitoscoloplos spp.	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Podarke obscura	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Unciola serrata	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Ampelisca abdita-vadorum complex	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Neanthes succinea	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Oxyurostylis smithi	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Caulleriella sp. B Blake	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Crangon septemspinosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Glycera dibranchiata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Glycera spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Heteromysis formosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Pectinaria gouldii	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Polycirrus spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Polydora cornuta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Rictaxis punctostriatus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Sabellidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Spio setosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-1	2200_26_JB026	40.60352	-73.84122	9/16/1993	Turbellaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Corophium tuberculatum	1	429	10725	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Streblospio benedicti	1	307	7675	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Sabellaria vulgaris	1	192	4800	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Elasmopus laevis	1	156	3900	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Exogone dispar	1	125	3125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Eobrolgus spinosus	1	53	1325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Oligochaeta	1	39	975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Crepidula fornicata	1	37	925	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Eumida sanguinea	1	37	925	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Mediomastus ambiseta	1	30	750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Microdeutopus gryllotalpa	1	27	675	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Hydroides dianthus	1	15	375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Typosyllis alternata	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Crepidula spp.	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Dyspanopeus sayi	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Unciola serrata	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Hypereteone heteropoda	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Neanthes arenaceodentata	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Polycirrus spp.	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Mercenaria mercenaria	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Podarke obscura	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Lysianopsis alba	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Tharyx sp. A Morris	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Aricidea catherinae	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Pagurus longicarpus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Phyllodoce arenae	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Polydora websteri	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Sabellidae	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Ampelisca abdita-vadorum complex	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Hesionidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Oxyurostylis smithi	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Pectinaria gouldii	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Unciola dissimilis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Ampharetidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Boonea bisuturalis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Capitella spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Eupleura caudata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Gemma gemma	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Heteromysis formosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Ilyanassa obsoleta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Leitoscoloplos spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Nucula annulata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Paracaprella tenuis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Rictaxis punctostriatus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Tellina agilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB026-2	2200_26_JB026	40.60352	-73.84122	9/16/1993	Turbellaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Mediomastus ambiseta	1	825	20625	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Streblospio benedicti	1	787	19675	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Oligochaeta	1	117	2925	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Crepidula fornicata	1	84	2100	0.04

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Sabellaria vulgaris	1	36	900	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Ilyanassa obsoleta	1	33	825	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Eumida sanguinea	1	32	800	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Hydroides dianthus	1	24	600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Leitoscoloplos spp.	1	19	475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Corophium tuberculatum	1	16	400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Polydora websteri	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Boonea bisuturalis	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Hypereteone heteropoda	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Polydora cornuta	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Rictaxis punctostriatus	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Ampelisca abdita-vadorum complex	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Capitella spp.	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Mercenaria mercenaria	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Tharyx sp. A Morris	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Ampelisca abdita	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Unciola spp.	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Elasmopus laevis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Nereididae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Odostomia spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Pectinaria gouldii	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Dyspanopeus sayi	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Glycera spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Leitoscoloplos robustus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Microdeutopus gryllotalpa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Mya arenaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Neanthes arenaceodentata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-1	2200_26_JB031	40.61128	-73.87111	9/17/1993	Oxyurostylis smithi	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Mediomastus ambiseta	1	650	16250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Streblospio benedicti	1	580	14500	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Oligochaeta	1	76	1900	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Ilyanassa obsoleta	1	52	1300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Rictaxis punctostriatus	1	32	800	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Ampelisca abdita-vadorum complex	1	19	475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Boonea bisuturalis	1	18	450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Mercenaria mercenaria	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Hypereteone heteropoda	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Tharyx sp. A Morris	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Leitoscoloplos spp.	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Crepidula spp.	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Eumida sanguinea	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Ampelisca abdita	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Corophium tuberculatum	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Capitella spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Dyspanopeus sayi	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Tellina agilis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Crangon septemspinosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Neomysis americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Odostomia spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Oxyurostylis smithi	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Pectinaria gouldii	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Petricola pholadiformis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB031-2	2200_26_JB031	40.61128	-73.87111	9/17/1993	Sabellaria vulgaris	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Ampelisca abdita	1	2198	54950	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Ampelisca abdita-vadorum complex	1	2084	52100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Corophium tuberculatum	1	745	18625	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Microdeutopus gryllotalpa	1	699	17475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Elasmopus laevis	1	308	7700	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Streblospio benedicti	1	222	5550	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Oligochaeta	1	162	4050	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Mediomastus ambiseta	1	119	2975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Lysianopsis alba	1	56	1400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Boonea bisuturalis	1	48	1200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Ilyanassa obsoleta	1	28	700	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Ampelisca vadorum	1	21	525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Tharyx sp. A Morris	1	19	475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Turbellaria	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Dyspanopeus sayi	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Ericthonius brasiliensis	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Caulleriella sp. B Blake	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Eumida sanguinea	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Crepidula spp.	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Eobrolgus spinosus	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Mysella planulata	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Tellina agilis	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Neanthes arenaceodentata	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Unciola spp.	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Exogone dispar	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Gemma gemma	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Leitoscoloplos spp.	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Polydora cornuta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Unciola dissimilis	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Hypereteone heteropoda	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Petricola pholadiformis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Ampharetidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Aricidea catherinae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Autolytus spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Glycera spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Harmothoe imbricata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Mercenaria mercenaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Neanthes succinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Nucula annulata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-1	2200_26_JB033	40.61608	-73.88732	9/13/1993	Podarke obscura	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Ampelisca abdita	1	1964	49100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Ampelisca abdita-vadorum complex	1	1260	31500	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Microdeutopus gryllotalpa	1	529	13225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Corophium tuberculatum	1	325	8125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Elasmopus laevis	1	248	6200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Streblospio benedicti	1	135	3375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Lysianopsis alba	1	134	3350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Oligochaeta	1	112	2800	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Boonea bisuturalis	1	59	1475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Mediomastus ambiseta	1	41	1025	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Dyspanopeus sayi	1	19	475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Ilyanassa obsoleta	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Nucula annulata	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Ampelisca vadorum	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Eobrolgus spinosus	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Eumida sanguinea	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Podarke obscura	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Turbellaria	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Heteromysis formosa	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Tharyx sp. A Morris	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Ericthonius brasiliensis	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Leitoscoloplos spp.	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Asabellides oculata	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Mercenaria mercenaria	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Mya arenaria	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Neanthes succinea	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Nereididae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Tellina agilis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Crepidula fornicata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Demonax microphthalmus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Exogone dispar	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Gemma gemma	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Hypereteone heteropoda	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Leitoscoloplos robustus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Polydora cornuta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Polydora spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB033-2	2200_26_JB033	40.61608	-73.88732	9/13/1993	Unciola spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Ampelisca abdita-vadorum complex	1	3083	77075	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Corophium tuberculatum	1	2033	50825	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Microdeutopus gryllotalpa	1	1560	39000	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Ampelisca abdita	1	1414	35350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Elasmopus laevis	1	574	14350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Mediomastus ambiseta	1	218	5450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Streblospio benedicti	1	216	5400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Ampelisca vadorum	1	201	5025	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Oligochaeta	1	161	4025	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Lysianopsis alba	1	154	3850	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Nucula annulata	1	121	3025	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Tharyx sp. A Morris	1	78	1950	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Exogone dispar	1	51	1275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Gemma gemma	1	50	1250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Turbellaria	1	37	925	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Dyspanopeus sayi	1	21	525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Ilyanassa obsoleta	1	20	500	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Podarke obscura	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Eumida sanguinea	1	15	375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Polydora cornuta	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Petricola pholadiformis	1	8	200	0.04

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Tellina agilis	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Eobrolgus spinosus	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Harmothoe imbricata	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Mya arenaria	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Hypereteone heteropoda	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Mercenaria mercenaria	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Unciola spp.	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Ampharetidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Anadara transversa	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Caprella penantis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Demonax microphthalmus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Glycera spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Neanthes arenaceodentata	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Neanthes succinea	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Asabellides oculata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Boonea bisuturalis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Crepidula spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Ericthonius brasiliensis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Heteromastus filiformis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Odostomia spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Pectinaria gouldii	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Pherusa affinis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Polycirrus spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-1	2200_26_JB039	40.58678	-73.84514	9/8/1993	Rictaxis punctostriatus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Ampelisca abdita-vadorum complex	1	3910	97750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Corophium tuberculatum	1	2110	52750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Ampelisca abdita	1	1771	44275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Microdeutopus gryllotalpa	1	1768	44200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Elasmopus laevis	1	1274	31850	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Ampelisca vadorum	1	371	9275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Oligochaeta	1	255	6375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Streblospio benedicti	1	217	5425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Mediomastus ambiseta	1	208	5200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Turbellaria	1	132	3300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Tharyx sp. A Morris	1	122	3050	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Lysianopsis alba	1	111	2775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Exogone dispar	1	33	825	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Nucula annulata	1	30	750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Podarke obscura	1	25	625	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Eumida sanguinea	1	22	550	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Dyspanopeus sayi	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Ilyanassa obsoleta	1	16	400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Polydora cornuta	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Hypereteone heteropoda	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Eobrolgus spinosus	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Petricola pholadiformis	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Unciola dissimilis	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Gemma gemma	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Sabellidae	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Tellina agilis	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Asabellides oculata	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Caprella penantis	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Heteromastus filiformis	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Paracaprella tenuis	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Crepidula spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Neanthes arenaceodentata	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Aricidea catherinae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Boonea bisuturalis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Ericthonius brasiliensis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Glycera americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Glycera spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Hydroides protulicola	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Leitoscoloplos robustus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Mya arenaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Nemertea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Nereididae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB039-2	2200_26_JB039	40.58678	-73.84514	9/8/1993	Pherusa affinis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Microdeutopus gryllotalpa	1	3251	81275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Ampelisca abdita	1	3178	79450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Ampelisca abdita-vadorum complex	1	2844	71100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Corophium tuberculatum	1	1374	34350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Elasmopus laevis	1	411	10275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Exogone dispar	1	171	4275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Nucula annulata	1	79	1975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Gemma gemma	1	77	1925	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Oligochaeta	1	75	1875	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Streblospio benedicti	1	72	1800	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Eobrolgus spinosus	1	60	1500	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Turbellaria	1	50	1250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Lysianopsis alba	1	49	1225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Tharyx sp. A Morris	1	47	1175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Mediomastus ambiseta	1	34	850	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Dyspanopeus sayi	1	21	525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Tellina agilis	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Ampelisca vadorum	1	15	375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Petricola pholadiformis	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Eumida sanguinea	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Heteromastus filiformis	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Ericthonius brasiliensis	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Harmothoe imbricata	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Hypereteone heteropoda	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Polydora cornuta	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Mysella planulata	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Podarke obscura	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Nereididae	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Ampharetidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Anadara transversa	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Asabellides oculata	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Libinia spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Cancer irroratus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Crangon septemspinosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Crepidula spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Glycera americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Glycera spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Harmothoe extenuata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Ilyanassa obsoleta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Muricidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Nemertea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Notocirrus spiniferus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Paracaprella tenuis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Unciola dissimilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-1	2200_26_JB041	40.5857	-73.8597	9/9/1993	Unciola serrata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Ampelisca abdita-vadorum complex	1	4054	101350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Microdeutopus gryllotalpa	1	3803	95075	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Ampelisca abdita	1	3094	77350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Corophium tuberculatum	1	1519	37975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Elasmopus laevis	1	519	12975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Lysianopsis alba	1	212	5300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Nucula annulata	1	195	4875	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Exogone dispar	1	127	3175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Gemma gemma	1	123	3075	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Oligochaeta	1	92	2300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Turbellaria	1	84	2100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Streblospio benedicti	1	70	1750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Mediomastus ambiseta	1	18	450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Tellina agilis	1	18	450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Ericthonius brasiliensis	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Ilyanassa obsoleta	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Eumida sanguinea	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Eobrolgus spinosus	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Ampelisca vadorum	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Dyspanopeus sayi	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Mysella planulata	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Tharyx sp. A Morris	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Crepidula spp.	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Hypereteone heteropoda	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Petricola pholadiformis	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Polydora cornuta	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Mercenaria mercenaria	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Podarke obscura	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Unciola dissimilis	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Harmothoe extenuata	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Heteromastus filiformis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Mya arenaria	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Neanthes arenaceodentata	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Capitella spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Nemertea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Nereididae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Phyllodoce arenae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Pinnixa spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB041-2	2200_26_JB041	40.5857	-73.8597	9/9/1993	Podarkeopsis levifuscina	1	1	25	0.04

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Sabellaria vulgaris	1	185	4625	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Hydroides dianthus	1	27	675	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Oligochaeta	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Streblospio benedicti	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Nephtys picta	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Gemma gemma	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Polycirrus spp.	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Podarke obscura	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Microphthalmus similis	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Tellina agilis	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Caulleriella sp. B Blake	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Exogone spp.	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Crepidula spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Nephtyidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Xanthidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Elasmopus laevis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Glycera spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Neanthes arenaceodentata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Rhepoxynius hudsoni	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Sabellidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-1	2200_26_JB042	40.58302	-73.84766	9/17/1993	Spiophanes bombyx	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Oligochaeta	1	71	1775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Streblospio benedicti	1	39	975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Sabellaria vulgaris	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Podarke obscura	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Nephtys picta	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Caulleriella sp. B Blake	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Mercenaria mercenaria	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Corophium tuberculatum	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Microphthalmus similis	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Polycirrus spp.	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Ampelisca abdita-vadorum complex	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Crepidula spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Dyspanopeus sayi	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Eumida sanguinea	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Gemma gemma	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Nephtyidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Syllidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Unciola serrata	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Ampelisca abdita	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Ampelisca vadorum	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Cirriformia grandis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Exogone dispar	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Hydroides dianthus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Lysianopsis alba	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Nereididae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Pagurus longicarpus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Polydora socialis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Rhepoxynius hudsoni	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB042-2	2200_26_JB042	40.58302	-73.84766	9/17/1993	Tellina agilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Paracaprella tenuis	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Microdeutopus gryllotalpa	1	16	400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Oligochaeta	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Elasmopus laevis	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Ericthonius brasiliensis	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Nephtys picta	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Corophium tuberculatum	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Sabellaria vulgaris	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Tellina agilis	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Unciola serrata	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Unciola spp.	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Crepidula spp.	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Dyspanopeus sayi	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Streblospio benedicti	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Neanthes arenaceodentata	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Stenothoe minuta	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Ampelisca abdita-vadorum complex	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Caprella penantis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Doridella obscura	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Eumida sanguinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Exogone dispar	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Hydroides protulicola	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Spiophanes bombyx	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-1	2200_26_JB043	40.57629	-73.87329	9/9/1993	Tharyx sp. A Morris	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Ampelisca abdita-vadorum complex	1	2335	58375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Ampelisca abdita	1	2231	55775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Corophium tuberculatum	1	721	18025	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Microdeutopus gryllotalpa	1	481	12025	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Elasmopus laevis	1	278	6950	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Tharyx sp. A Morris	1	222	5550	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Oligochaeta	1	62	1550	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Neanthes arenaceodentata	1	61	1525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Streblospio benedicti	1	51	1275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Tellina agilis	1	51	1275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Mediomastus ambiseta	1	47	1175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Exogone dispar	1	41	1025	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Eobrolgus spinosus	1	27	675	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Lysianopsis alba	1	26	650	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Turbellaria	1	22	550	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Eumida sanguinea	1	18	450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Dyspanopeus sayi	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Aricidea catherinae	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Gemma gemma	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Nucula annulata	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Ampelisca vadorum	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Ampharetidae	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Caulleriella sp. B Blake	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Hypereteone heteropoda	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Gammarus annulatus	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Mercenaria mercenaria	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Petricola pholadiformis	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Anadara transversa	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Crepidula spp.	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Cyathura burbancki	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Polydora cornuta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Unciola dissimilis	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Glycera spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Heteromastus filiformis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Nemertea	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Nereididae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Cirriformia grandis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Ensis directus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Mysella planulata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Syllidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Syllides convoluta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB043-2	2200_26_JB043	40.57629	-73.87329	9/9/1993	Unciola spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-1	2200_27_JB101	40.63960	-73.81325	9/9/1994	Streblospio benedicti	1	2090	52250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-1	2200_27_JB101	40.63960	-73.81325	9/9/1994	Ampelisca abdita	1	98	2450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-1	2200_27_JB101	40.63960	-73.81325	9/9/1994	Ampelisca abdita-vadorum complex	1	91	2275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-1	2200_27_JB101	40.63960	-73.81325	9/9/1994	Ilyanassa obsoleta	1	87	2175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-1	2200_27_JB101	40.63960	-73.81325	9/9/1994	Podarke obscura	1	40	1000	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-1	2200_27_JB101	40.63960	-73.81325	9/9/1994	Hypereteone heteropoda	1	38	950	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-1	2200_27_JB101	40.63960	-73.81325	9/9/1994	Mercenaria mercenaria	1	32	800	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-1	2200_27_JB101	40.63960	-73.81325	9/9/1994	Neanthes succinea	1	20	500	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-1	2200_27_JB101	40.63960	-73.81325	9/9/1994	Pectinaria gouldii	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-1	2200_27_JB101	40.63960	-73.81325	9/9/1994	Podarkeopsis levifuscina	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-1	2200_27_JB101	40.63960	-73.81325	9/9/1994	Oligochaeta	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-1	2200_27_JB101	40.63960	-73.81325	9/9/1994	Eumida sanguinea	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-1	2200_27_JB101	40.63960	-73.81325	9/9/1994	Mediomastus ambiseta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-1	2200_27_JB101	40.63960	-73.81325	9/9/1994	Capitella spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-1	2200_27_JB101	40.63960	-73.81325	9/9/1994	Lepidonotus sublevis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-1	2200_27_JB101	40.63960	-73.81325	9/9/1994	Polydora cornuta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-2	2200_27_JB101	40.63960	-73.81325	9/9/1994	Streblospio benedicti	1	814	20350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-2	2200_27_JB101	40.63960	-73.81325	9/9/1994	Hypereteone heteropoda	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-2	2200_27_JB101	40.63960	-73.81325	9/9/1994	Ampelisca abdita-vadorum complex	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-2	2200_27_JB101	40.63960	-73.81325	9/9/1994	Capitella spp.	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-2	2200_27_JB101	40.63960	-73.81325	9/9/1994	Oligochaeta	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-2	2200_27_JB101	40.63960	-73.81325	9/9/1994	Neanthes succinea	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-2	2200_27_JB101	40.63960	-73.81325	9/9/1994	Podarke obscura	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-2	2200_27_JB101	40.63960	-73.81325	9/9/1994	Ampelisca abdita	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-2	2200_27_JB101	40.63960	-73.81325	9/9/1994	Pectinaria gouldii	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-2	2200_27_JB101	40.63960	-73.81325	9/9/1994	Eumida sanguinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-2	2200_27_JB101	40.63960	-73.81325	9/9/1994	Mediomastus ambiseta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB101	JB101-2	2200_27_JB101	40.63960	-73.81325	9/9/1994	Podarkeopsis levifuscina	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB103	JB103-1	2200_27_JB103	40.62917	-73.78714	9/12/1994	Parahesione luteola	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB103	JB103-1	2200_27_JB103	40.62917	-73.78714	9/12/1994	Streblospio benedicti	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB103	JB103-2	2200_27_JB103	40.62917	-73.78714	9/12/1994	No Organisms Present	1	0	0	#DIV/0!
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB104	JB104-1	2200_27_JB104	40.62187	-73.84108	9/12/1994	Ilyanassa obsoleta	1	111	2775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB104	JB104-1	2200_27_JB104	40.62187	-73.84108	9/12/1994	Streblospio benedicti	1	80	2000	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB104	JB104-1	2200_27_JB104	40.62187	-73.84108	9/12/1994	Spio setosa	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB104	JB104-1	2200_27_JB104	40.62187	-73.84108	9/12/1994	Oligochaeta	1	6	150	0.04

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB104	JB104-1	2200_27_JB104	40.62187	-73.84108	9/12/1994	Ampelisca abdita-vadorum complex	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB104	JB104-1	2200_27_JB104	40.62187	-73.84108	9/12/1994	Neanthes arenaceodentata	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB104	JB104-1	2200_27_JB104	40.62187	-73.84108	9/12/1994	Scolelepis texana	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB104	JB104-1	2200_27_JB104	40.62187	-73.84108	9/12/1994	Elasmopus laevis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB104	JB104-1	2200_27_JB104	40.62187	-73.84108	9/12/1994	Tellina agilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB104	JB104-2	2200_27_JB104	40.62187	-73.84108	9/12/1994	Capitella spp.	1	211	5275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB104	JB104-2	2200_27_JB104	40.62187	-73.84108	9/12/1994	Neanthes arenaceodentata	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB104	JB104-2	2200_27_JB104	40.62187	-73.84108	9/12/1994	Streblospio benedicti	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB104	JB104-2	2200_27_JB104	40.62187	-73.84108	9/12/1994	Ampelisca abdita-vadorum complex	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB104	JB104-2	2200_27_JB104	40.62187	-73.84108	9/12/1994	Heteromastus filiformis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB104	JB104-2	2200_27_JB104	40.62187	-73.84108	9/12/1994	Polydora cornuta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Ampelisca abdita-vadorum complex	1	3514	87850	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Ampelisca abdita	1	1274	31850	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Streblospio benedicti	1	1054	26350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Microdeutopus gryllotalpa	1	1034	25850	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Corophium tuberculatum	1	599	14975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Elasmopus laevis	1	426	10650	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Mediomastus ambiseta	1	235	5875	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Ampelisca vadorum	1	203	5075	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Oligochaeta	1	144	3600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Eobrolgus spinosus	1	35	875	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Boonea bisuturalis	1	33	825	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Lysianopsis alba	1	22	550	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Polydora cornuta	1	19	475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Hypereteone heteropoda	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Nucula annulata	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Turbellaria	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Ilyanassa obsoleta	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Neanthes arenaceodentata	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Dyspanopeus sayi	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Eumida sanguinea	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Mercenaria mercenaria	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Exogone dispar	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Crepidula maculosa	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Mya arenaria	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Neanthes succinea	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Podarke obscura	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Podarkeopsis levifuscina	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Capitella spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Gemma gemma	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Heteromastus filiformis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Leitoscoloplos spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Nemertea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Pectinaria gouldii	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Petricola pholadiformis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Polydora spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Tellina agilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-1	2200_27_JB106	40.62089	-73.88991	9/6/1994	Tharyx sp. A Morris	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Ampelisca abdita-vadorum complex	1	2669	66725	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Streblospio benedicti	1	2138	53450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Ampelisca abdita	1	1410	35250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Microdeutopus gryllotalpa	1	1094	27350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Mediomastus ambiseta	1	545	13625	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Corophium tuberculatum	1	510	12750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Elasmopus laevis	1	403	10075	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Oligochaeta	1	326	8150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Ampelisca vadorum	1	276	6900	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Lysianopsis alba	1	88	2200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Eobrolgus spinosus	1	47	1175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Polydora cornuta	1	34	850	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Ilyanassa obsoleta	1	33	825	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Boonea bisuturalis	1	32	800	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Nucula annulata	1	28	700	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Hypereteone heteropoda	1	22	550	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Mercenaria mercenaria	1	19	475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Dyspanopeus sayi	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Eumida sanguinea	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Podarke obscura	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Turbellaria	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Podarkeopsis levifuscina	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Tharyx sp. A Morris	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Exogone dispar	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Heteromastus filiformis	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Nassarius vibex	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Leitoscoloplos robustus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Mya arenaria	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Neanthes arenaceodentata	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Petricola pholadiformis	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Crepidula spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Polycirrus spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Tellina agilis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Unciola dissimilis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Capitella spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Cirratulidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Gemma gemma	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Glycera americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Neanthes succinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Nemertea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Paranaitis speciosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Polynoidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB106	JB106-2	2200_27_JB106	40.62089	-73.88991	9/6/1994	Pseudopotamilla reniformis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-1	2200_27_JB108	40.61715	-73.85683	9/8/1994	Streblospio benedicti	1	101	2525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-1	2200_27_JB108	40.61715	-73.85683	9/8/1994	Crepidula maculosa	1	30	750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-1	2200_27_JB108	40.61715	-73.85683	9/8/1994	Ilyanassa obsoleta	1	30	750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-1	2200_27_JB108	40.61715	-73.85683	9/8/1994	Corophium tuberculatum	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-1	2200_27_JB108	40.61715	-73.85683	9/8/1994	Crepidula spp.	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-1	2200_27_JB108	40.61715	-73.85683	9/8/1994	Neanthes arenaceodentata	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-1	2200_27_JB108	40.61715	-73.85683	9/8/1994	Gemma gemma	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-1	2200_27_JB108	40.61715	-73.85683	9/8/1994	Oligochaeta	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-1	2200_27_JB108	40.61715	-73.85683	9/8/1994	Polydora cornuta	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-1	2200_27_JB108	40.61715	-73.85683	9/8/1994	Mediomastus ambiseta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-1	2200_27_JB108	40.61715	-73.85683	9/8/1994	Melita nitida	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-1	2200_27_JB108	40.61715	-73.85683	9/8/1994	Dyspanopeus sayi	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-1	2200_27_JB108	40.61715	-73.85683	9/8/1994	Hypereteone heteropoda	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-1	2200_27_JB108	40.61715	-73.85683	9/8/1994	Pagurus longicarpus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-1	2200_27_JB108	40.61715	-73.85683	9/8/1994	Boonea bisuturalis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-1	2200_27_JB108	40.61715	-73.85683	9/8/1994	Cirratulidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-1	2200_27_JB108	40.61715	-73.85683	9/8/1994	Elasmopus laevis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-1	2200_27_JB108	40.61715	-73.85683	9/8/1994	Eumida sanguinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-1	2200_27_JB108	40.61715	-73.85683	9/8/1994	Leitoscoloplos robustus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-1	2200_27_JB108	40.61715	-73.85683	9/8/1994	Leitoscoloplos spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-2	2200_27_JB108	40.61715	-73.85683	9/8/1994	Streblospio benedicti	1	245	6125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-2	2200_27_JB108	40.61715	-73.85683	9/8/1994	Ilyanassa obsoleta	1	26	650	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-2	2200_27_JB108	40.61715	-73.85683	9/8/1994	Corophium tuberculatum	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-2	2200_27_JB108	40.61715	-73.85683	9/8/1994	Crepidula maculosa	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-2	2200_27_JB108	40.61715	-73.85683	9/8/1994	Neanthes arenaceodentata	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-2	2200_27_JB108	40.61715	-73.85683	9/8/1994	Mediomastus ambiseta	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-2	2200_27_JB108	40.61715	-73.85683	9/8/1994	Oligochaeta	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-2	2200_27_JB108	40.61715	-73.85683	9/8/1994	Crepidula spp.	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-2	2200_27_JB108	40.61715	-73.85683	9/8/1994	Ampelisca abdita-vadorum complex	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-2	2200_27_JB108	40.61715	-73.85683	9/8/1994	Cirratulidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-2	2200_27_JB108	40.61715	-73.85683	9/8/1994	Elasmopus laevis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-2	2200_27_JB108	40.61715	-73.85683	9/8/1994	Eumida sanguinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-2	2200_27_JB108	40.61715	-73.85683	9/8/1994	Glycera dibranchiata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-2	2200_27_JB108	40.61715	-73.85683	9/8/1994	Hypereteone heteropoda	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-2	2200_27_JB108	40.61715	-73.85683	9/8/1994	Melita nitida	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-2	2200_27_JB108	40.61715	-73.85683	9/8/1994	Microdeutopus gryllotalpa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-2	2200_27_JB108	40.61715	-73.85683	9/8/1994	Pagurus longicarpus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-2	2200_27_JB108	40.61715	-73.85683	9/8/1994	Polydora cornuta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-2	2200_27_JB108	40.61715	-73.85683	9/8/1994	Spio setosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB108	JB108-2	2200_27_JB108	40.61715	-73.85683	9/8/1994	Tharyx sp. A Morris	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Sabellaria vulgaris	1	1166	29150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Streblospio benedicti	1	352	8800	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Podarke obscura	1	124	3100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Gemma gemma	1	91	2275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Corophium tuberculatum	1	84	2100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Caulleriella sp. B Blake	1	53	1325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Hydroides dianthus	1	44	1100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Oligochaeta	1	27	675	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Eumida sanguinea	1	24	600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Elasmopus laevis	1	18	450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Neanthes succinea	1	15	375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Spio setosa	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Unciola serrata	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Microdeutopus gryllotalpa	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Eobrolgus spinosus	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Glycera dibranchiata	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Ampelisca abdita	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Hypereteone heteropoda	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Polydora cornuta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Ampelisca abdita-vadorum complex	1	2	50	0.04

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Boonea bisuturalis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Dorvillea rudolphi	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Dyspanopeus sayi	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Lysianopsis alba	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Neanthes arenaceodentata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-1	2200_27_JB110	40.60664	-73.81415	9/9/1994	Nereididae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-2	2200_27_JB110	40.60664	-73.81415	9/9/1994	Streblospio benedicti	1	344	8600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-2	2200_27_JB110	40.60664	-73.81415	9/9/1994	Gemma gemma	1	89	2225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-2	2200_27_JB110	40.60664	-73.81415	9/9/1994	Caulleriella sp. B Blake	1	65	1625	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-2	2200_27_JB110	40.60664	-73.81415	9/9/1994	Oligochaeta	1	32	800	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-2	2200_27_JB110	40.60664	-73.81415	9/9/1994	Sabellaria vulgaris	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-2	2200_27_JB110	40.60664	-73.81415	9/9/1994	Ampelisca abdita-vadorum complex	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-2	2200_27_JB110	40.60664	-73.81415	9/9/1994	Hypereteone heteropoda	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-2	2200_27_JB110	40.60664	-73.81415	9/9/1994	Podarke obscura	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-2	2200_27_JB110	40.60664	-73.81415	9/9/1994	Glycera dibranchiata	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-2	2200_27_JB110	40.60664	-73.81415	9/9/1994	Neanthes arenaceodentata	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-2	2200_27_JB110	40.60664	-73.81415	9/9/1994	Unciola serrata	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-2	2200_27_JB110	40.60664	-73.81415	9/9/1994	Leitoscoloplos robustus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-2	2200_27_JB110	40.60664	-73.81415	9/9/1994	Spio setosa	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-2	2200_27_JB110	40.60664	-73.81415	9/9/1994	Hydroides dianthus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-2	2200_27_JB110	40.60664	-73.81415	9/9/1994	Microdeutopus gryllotalpa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB110	JB110-2	2200_27_JB110	40.60664	-73.81415	9/9/1994	Pagurus spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Ampelisca abdita-vadorum complex	1	4284	107100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Ampelisca abdita	1	2496	62400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Streblospio benedicti	1	1334	33350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Mediomastus ambiseta	1	174	4350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Ampelisca vadorum	1	72	1800	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Podarke obscura	1	63	1575	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Hypereteone heteropoda	1	58	1450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Corophium tuberculatum	1	39	975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Polydora cornuta	1	20	500	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Neanthes succinea	1	16	400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Podarkeopsis levifuscina	1	15	375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Bivalvia: Other - Suspension Feeders	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Dyspanopeus sayi	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Elasmopus laevis	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Eumida sanguinea	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Gastropoda: Other	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Oligochaeta	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Tharyx sp. A Morris	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Pectinaria gouldii	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Turbellaria	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Capitella spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Crangon septemspinosa	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Crepidula spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Glycera spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Nassarius trivittatus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Unciola spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Cirratulidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Edotea triloba	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Eobrolgus spinosus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Leitoscoloplos spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Nemertea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Sabellidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-1	2200_27_JB111	40.60530	-73.79029	9/8/1994	Syllidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-2	2200_27_JB111	40.60530	-73.79029	9/8/1994	Streblospio benedicti	1	119	2975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-2	2200_27_JB111	40.60530	-73.79029	9/8/1994	Polydora cornuta	1	53	1325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-2	2200_27_JB111	40.60530	-73.79029	9/8/1994	Paleomonetes vulgaris	1	21	525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-2	2200_27_JB111	40.60530	-73.79029	9/8/1994	Dyspanopeus sayi	1	19	475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-2	2200_27_JB111	40.60530	-73.79029	9/8/1994	Elasmopus laevis	1	18	450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-2	2200_27_JB111	40.60530	-73.79029	9/8/1994	Ampelisca abdita-vadorum complex	1	15	375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-2	2200_27_JB111	40.60530	-73.79029	9/8/1994	Podarke obscura	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-2	2200_27_JB111	40.60530	-73.79029	9/8/1994	Neanthes succinea	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-2	2200_27_JB111	40.60530	-73.79029	9/8/1994	Capitella spp.	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-2	2200_27_JB111	40.60530	-73.79029	9/8/1994	Hypereteone heteropoda	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-2	2200_27_JB111	40.60530	-73.79029	9/8/1994	Ampelisca abdita	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-2	2200_27_JB111	40.60530	-73.79029	9/8/1994	Oligochaeta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-2	2200_27_JB111	40.60530	-73.79029	9/8/1994	Podarkeopsis levifuscina	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-2	2200_27_JB111	40.60530	-73.79029	9/8/1994	Cirratulidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-2	2200_27_JB111	40.60530	-73.79029	9/8/1994	Nereididae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-2	2200_27_JB111	40.60530	-73.79029	9/8/1994	Dorvillea rudolphi	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-2	2200_27_JB111	40.60530	-73.79029	9/8/1994	Lysianopsis alba	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-2	2200_27_JB111	40.60530	-73.79029	9/8/1994	Mediomastus ambiseta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB111	JB111-2	2200_27_JB111	40.60530	-73.79029	9/8/1994	Polydora spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Streblospio benedicti	1	280	7000	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Caulleriella sp. B Blake	1	53	1325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Cirratulidae	1	42	1050	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Scolelepis texana	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Tharyx sp. A Morris	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Aricidea catherinae	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Crepidula maculosa	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Oligochaeta	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Spio setosa	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Ilyanassa obsoleta	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Neanthes arenaceodentata	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Gemma gemma	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Hypereteone heteropoda	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Corophium spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Leitoscoloplos robustus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Mercenaria mercenaria	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Crepidula spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Leitoscoloplos spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Microdeutopus gryllotalpa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Pagurus longicarpus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-1	2200_27_JB112	40.60264	-73.86445	9/8/1994	Unciola spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Streblospio benedicti	1	621	15525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Corophium tuberculatum	1	136	3400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Sabellaria vulgaris	1	83	2075	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Capitella spp.	1	79	1975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Elasmopus laevis	1	74	1850	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Hydroides dianthus	1	58	1450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Neanthes arenaceodentata	1	57	1425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Crepidula spp.	1	48	1200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Hypereteone heteropoda	1	30	750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Ilyanassa obsoleta	1	25	625	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Crepidula maculosa	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Mediomastus ambiseta	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Eobrolgus spinosus	1	16	400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Dyspanopeus sayi	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Mercenaria mercenaria	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Ampelisca abdita	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Eumida sanguinea	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Melita nitida	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Oligochaeta	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Unciola spp.	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Microdeutopus gryllotalpa	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Podarke obscura	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Polydora cornuta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Cirratulidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Gemma gemma	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Heteromysis formosa	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Leitoscoloplos spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Pectinaria gouldii	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Pseudopotamilla reniformis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Tharyx sp. A Morris	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Ampelisca abdita-vadorum complex	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Doridella obscura	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Exogone dispar	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Lumbrineridae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Neanthes succinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Polycirrus spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB112	JB112-2	2200_27_JB112	40.60264	-73.86445	9/8/1994	Sabellidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Hydroides dianthus	1	594	14850	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Streblospio benedicti	1	593	14825	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Mediomastus ambiseta	1	111	2775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Sabellaria vulgaris	1	81	2025	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Ilyanassa obsoleta	1	39	975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Oligochaeta	1	33	825	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Polydora cornuta	1	23	575	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Crepidula spp.	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Crepidula maculosa	1	16	400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Cirratulidae	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Tharyx sp. A Morris	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Caulleriella sp. B Blake	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Polydora spp.	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Ampelisca abdita	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Eobrolgus spinosus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Exogone dispar	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Heteromysis formosa	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Leitoscoloplos robustus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Ampelisca abdita-vadorum complex	1	1	25	0.04

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Aoridae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Aricidea catherinae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Corophium tuberculatum	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Doridella obscura	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Elasmopus laevis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Eumida sanguinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Leitoscoloplos spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Melita nitida	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Neanthes arenaceodentata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Scolelepis texana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Tellina agilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-1	2200_27_JB113	40.59587	-73.86688	9/6/1994	Unciola serrata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Streblospio benedicti	1	781	19525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Mediomastus ambiseta	1	112	2800	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Oligochaeta	1	73	1825	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Ilyanassa obsoleta	1	28	700	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Tharyx sp. A Morris	1	25	625	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Crepidula maculosa	1	20	500	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Polydora cornuta	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Spio setosa	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Corophium tuberculatum	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Eumida sanguinea	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Microdeutopus gryllotalpa	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Unciola spp.	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Caulleriella sp. B Blake	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Exogone dispar	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Leitoscoloplos robustus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Unciola dissimilis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Ampelisca abdita-vadorum complex	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Aricidea catherinae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Dyspanopeus sayi	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Glycera dibranchiata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Pagurus spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Podarke obscura	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Polydora spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB113	JB113-2	2200_27_JB113	40.59587	-73.86688	9/6/1994	Scolelepis texana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Ampelisca abdita-vadorum complex	1	886	22150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Corophium tuberculatum	1	711	17775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Ampelisca abdita	1	431	10775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Streblospio benedicti	1	277	6925	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Gemma gemma	1	216	5400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Microdeutopus gryllotalpa	1	190	4750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Polydora cornuta	1	185	4625	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Eobrolgus spinosus	1	148	3700	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Exogone dispar	1	139	3475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Caulleriella sp. B Blake	1	36	900	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Mediomastus ambiseta	1	34	850	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Hypereteone heteropoda	1	32	800	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Neanthes arenaceodentata	1	26	650	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Crepidula maculosa	1	19	475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Oligochaeta	1	16	400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Lysianopsis alba	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Cirratulidae	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Tharyx sp. A Morris	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Mercenaria mercenaria	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Unciola spp.	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Elasmopus laevis	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Ampelisca vadorum	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Mya arenaria	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Nucula annulata	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Crepidula spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Petricola pholadiformis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Aricidea catherinae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Cossura longocirrata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Dyspanopeus sayi	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Glycera spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Heteromastus filiformis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Nemertea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Polycirrus spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-1	2200_27_JB114	40.59127	-73.85093	9/8/1994	Sabellaria vulgaris	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Gemma gemma	1	741	18525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Ampelisca abdita-vadorum complex	1	230	5750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Corophium tuberculatum	1	191	4775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Streblospio benedicti	1	157	3925	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Mediomastus ambiseta	1	146	3650	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Ampelisca abdita	1	111	2775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Eobrolgus spinosus	1	89	2225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Polydora cornuta	1	84	2100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Exogone dispar	1	55	1375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Microdeutopus gryllotalpa	1	53	1325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Oligochaeta	1	32	800	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Neanthes arenaceodentata	1	31	775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Caulleriella sp. B Blake	1	23	575	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Hypereteone heteropoda	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Cirratulidae	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Sabellaria vulgaris	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Mercenaria mercenaria	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Mya arenaria	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Elasmopus laevis	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Capitella spp.	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Nucula annulata	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Tharyx sp. A Morris	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Crepidula spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Eumida sanguinea	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Tellina agilis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Aricidea catherinae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Crepidula maculosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Dyspanopeus sayi	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Ensis directus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Leitoscoloplos spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Lysianopsis alba	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Nemertea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Petricola pholadiformis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB114	JB114-2	2200_27_JB114	40.59127	-73.85093	9/8/1994	Unciola spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Streblospio benedicti	1	127	3175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Corophium tuberculatum	1	61	1525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Tharyx sp. A Morris	1	55	1375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Cirratulidae	1	41	1025	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Sabellaria vulgaris	1	41	1025	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Caulleriella sp. B Blake	1	30	750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Oligochaeta	1	27	675	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Microdeutopus gryllotalpa	1	18	450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Neanthes arenaceodentata	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Elasmopus laevis	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Unciola serrata	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Eobrolgus spinosus	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Gemma gemma	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Aricidea catherinae	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Hydroides dianthus	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Hypereteone heteropoda	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Crepidula maculosa	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Dyspanopeus sayi	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Mediomastus ambiseta	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Eumida sanguinea	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Mercenaria mercenaria	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Neanthes succinea	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Polycirrus spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Ampelisca abdita-vadorum complex	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Lysianopsis alba	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Pagurus longicarpus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Petricola pholadiformis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Podarke obscura	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-1	2200_27_JB115	40.63385	-73.86956	9/6/1994	Turbellaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Corophium tuberculatum	1	167	4175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Streblospio benedicti	1	140	3500	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Sabellaria vulgaris	1	120	3000	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Microdeutopus gryllotalpa	1	109	2725	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Cirratulidae	1	100	2500	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Oligochaeta	1	86	2150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Tharyx sp. A Morris	1	83	2075	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Caulleriella sp. B Blake	1	76	1900	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Eobrolgus spinosus	1	45	1125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Elasmopus laevis	1	40	1000	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Neanthes arenaceodentata	1	33	825	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Gemma gemma	1	27	675	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Hypereteone heteropoda	1	21	525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Sabellidae	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Podarke obscura	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Aricidea catherinae	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Eumida sanguinea	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Mediomastus ambiseta	1	11	275	0.04

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Hydroides dianthus	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Mercenaria mercenaria	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Crepidula maculosa	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Polydora cornuta	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Unciola spp.	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Dyspanopeus sayi	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Proceraea cornuta	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Neanthes succinea	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Paracaprella tenuis	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Pseudopotamilla reniformis	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Syllides verrilli	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Doridella obscura	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Polycirrus spp.	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Polydora websteri	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Unciola serrata	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Crangon septemspinosa	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Crepidula spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Ericthonius brasiliensis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Glycera dibranchiata	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Heteromysis formosa	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Stenothoe minuta	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Typosyllis alternata	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Ampelisca abdita	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Ampelisca abdita-vadorum complex	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Ampelisca vadorum	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Capitella spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Glycera spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Lysianopsis alba	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Microphthalmus aberrans	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Nassarius trivittatus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Petricola pholadiformis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Spio setosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Syllidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Turbellaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB115	JB115-2	2200_27_JB115	40.63385	-73.86956	9/6/1994	Unciola dissimilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Ampelisca abdita-vadorum complex	1	648	16200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Ampelisca vadorum	1	225	5625	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Ampelisca abdita	1	207	5175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Polydora cornuta	1	122	3050	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Lysianopsis alba	1	101	2525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Podarke obscura	1	91	2275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Streblospio benedicti	1	58	1450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Mediomastus ambiseta	1	46	1150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Ilyanassa obsoleta	1	31	775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Oligochaeta	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Dyspanopeus sayi	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Elasmopus laevis	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Capitella spp.	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Eumida sanguinea	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Neanthes succinea	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Corophium tuberculatum	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Hypereteone heteropoda	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Glycera spp.	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Glycera americana	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Gemma gemma	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Heteromastus filiformis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Leitoscoloplos robustus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Nereididae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Pectinaria gouldii	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Polydora spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-1	2200_27_JB117	40.62350	-73.76481	9/14/1994	Tharyx sp. A Morris	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Ampelisca abdita-vadorum complex	1	1026	25650	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Polydora cornuta	1	354	8850	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Ampelisca vadorum	1	213	5325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Ampelisca abdita	1	211	5275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Polydora spp.	1	147	3675	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Streblospio benedicti	1	144	3600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Mediomastus ambiseta	1	137	3425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Podarke obscura	1	79	1975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Lysianopsis alba	1	45	1125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Oligochaeta	1	41	1025	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Ilyanassa obsoleta	1	26	650	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Hypereteone heteropoda	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Capitella spp.	1	15	375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Elasmopus laevis	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Mercenaria mercenaria	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Glycera spp.	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Pectinaria gouldii	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Neanthes succinea	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Tharyx sp. A Morris	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Eumida sanguinea	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Podarkeopsis levifuscina	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Eobrolgus spinosus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Leitoscoloplos robustus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Pagurus longicarpus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Corophium tuberculatum	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Dorvillea rudolphi	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Boonea bisuturalis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Crepidula maculosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Dyspanopeus sayi	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Leitoscoloplos spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Pyramidellidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB117	JB117-2	2200_27_JB117	40.62350	-73.76481	9/14/1994	Tellina agilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Streblospio benedicti	1	384	9600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Caulleriella sp. B Blake	1	69	1725	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Oligochaeta	1	49	1225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Aricidea catherinae	1	40	1000	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Cirratulidae	1	37	925	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Microdeutopus gryllotalpa	1	24	600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Tharyx sp. A Morris	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Crepidula maculosa	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Scolelepis texana	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Unciola spp.	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Hypereteone heteropoda	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Tellina agilis	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Corophium tuberculatum	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Leitoscoloplos robustus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Leitoscoloplos spp.	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Mediomastus spp.	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Polydora cornuta	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Doridella obscura	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Ensis directus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Glycera spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Polycirrus spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Sabellidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-1	2200_27_JB119	40.60365	-73.87481	9/12/1994	Streptosyllis pettiboneae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-2	2200_27_JB119	40.60365	-73.87481	9/12/1994	Streblospio benedicti	1	261	6525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-2	2200_27_JB119	40.60365	-73.87481	9/12/1994	Caulleriella sp. B Blake	1	94	2350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-2	2200_27_JB119	40.60365	-73.87481	9/12/1994	Cirratulidae	1	31	775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-2	2200_27_JB119	40.60365	-73.87481	9/12/1994	Gemma gemma	1	24	600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-2	2200_27_JB119	40.60365	-73.87481	9/12/1994	Oligochaeta	1	18	450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-2	2200_27_JB119	40.60365	-73.87481	9/12/1994	Aricidea catherinae	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-2	2200_27_JB119	40.60365	-73.87481	9/12/1994	Tharyx sp. A Morris	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-2	2200_27_JB119	40.60365	-73.87481	9/12/1994	Hypereteone heteropoda	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-2	2200_27_JB119	40.60365	-73.87481	9/12/1994	Leitoscoloplos spp.	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-2	2200_27_JB119	40.60365	-73.87481	9/12/1994	Microdeutopus gryllotalpa	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-2	2200_27_JB119	40.60365	-73.87481	9/12/1994	Ampelisca abdita-vadorum complex	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-2	2200_27_JB119	40.60365	-73.87481	9/12/1994	Mediomastus ambiseta	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-2	2200_27_JB119	40.60365	-73.87481	9/12/1994	Mercenaria mercenaria	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-2	2200_27_JB119	40.60365	-73.87481	9/12/1994	Scolelepis spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-2	2200_27_JB119	40.60365	-73.87481	9/12/1994	Crepidula maculosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-2	2200_27_JB119	40.60365	-73.87481	9/12/1994	Glycera spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-2	2200_27_JB119	40.60365	-73.87481	9/12/1994	Nephtys picta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-2	2200_27_JB119	40.60365	-73.87481	9/12/1994	Ovalipes ocellatus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-2	2200_27_JB119	40.60365	-73.87481	9/12/1994	Pagurus longicarpus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB119	JB119-2	2200_27_JB119	40.60365	-73.87481	9/12/1994	Tellina agilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-1	2200_27_JB120	40.59647	-73.81256	9/13/1994	Streblospio benedicti	1	480	12000	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-1	2200_27_JB120	40.59647	-73.81256	9/13/1994	Caulleriella sp. B Blake	1	88	2200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-1	2200_27_JB120	40.59647	-73.81256	9/13/1994	Oligochaeta	1	37	925	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-1	2200_27_JB120	40.59647	-73.81256	9/13/1994	Sabellaria vulgaris	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-1	2200_27_JB120	40.59647	-73.81256	9/13/1994	Mediomastus ambiseta	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-1	2200_27_JB120	40.59647	-73.81256	9/13/1994	Aricidea catherinae	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-1	2200_27_JB120	40.59647	-73.81256	9/13/1994	Gemma gemma	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-1	2200_27_JB120	40.59647	-73.81256	9/13/1994	Glycera dibranchiata	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-1	2200_27_JB120	40.59647	-73.81256	9/13/1994	Hypereteone heteropoda	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-1	2200_27_JB120	40.59647	-73.81256	9/13/1994	Corophium tuberculatum	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-1	2200_27_JB120	40.59647	-73.81256	9/13/1994	Cirratulidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-1	2200_27_JB120	40.59647	-73.81256	9/13/1994	Ampelisca abdita-vadorum complex	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-1	2200_27_JB120	40.59647	-73.81256	9/13/1994	Corophium spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-1	2200_27_JB120	40.59647	-73.81256	9/13/1994	Crepidula maculosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-1	2200_27_JB120	40.59647	-73.81256	9/13/1994	Leitoscoloplos spp.	1	1	25	0.04

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-1	2200_27_JB120	40.59647	-73.81256	9/13/1994	Limulus polyphemus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-1	2200_27_JB120	40.59647	-73.81256	9/13/1994	Tharyx acutus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-1	2200_27_JB120	40.59647	-73.81256	9/13/1994	Unciola spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Gemma gemma	1	310	7750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Streblospio benedicti	1	287	7175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Sabellaria vulgaris	1	144	3600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Caulleriella sp. B Blake	1	141	3525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Oligochaeta	1	21	525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Hypereteone heteropoda	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Cirratulidae	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Aricidea catherinae	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Corophium tuberculatum	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Hydroides dianthus	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Leitoscoloplos robustus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Ampelisca abdita-vadorum complex	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Eobrolgus spinosus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Leitoscoloplos spp.	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Mediomastus ambiseta	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Podarke obscura	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Unciola serrata	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Glycera spp.	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Mercenaria mercenaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Mya arenaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Nephtys picta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Ovalipes ocellatus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Polydora cornuta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Sabellidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Tellina agilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB120	JB120-2	2200_27_JB120	40.59647	-73.81256	9/13/1994	Tharyx sp. A Morris	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB0081	2200_26_JB008	40.64108	-73.81602	8/4/1998	Ampelisca abdita	1	40	1000	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB0081	2200_26_JB008	40.64108	-73.81602	8/4/1998	Sabellaria vulgaris	1	37	925	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB0081	2200_26_JB008	40.64108	-73.81602	8/4/1998	Neanthes succinea	1	23	575	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB0081	2200_26_JB008	40.64108	-73.81602	8/4/1998	Podarke obscura	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB0081	2200_26_JB008	40.64108	-73.81602	8/4/1998	Actiniaria	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB0081	2200_26_JB008	40.64108	-73.81602	8/4/1998	Ilyanassa obsoleta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB0081	2200_26_JB008	40.64108	-73.81602	8/4/1998	Podarkeopsis levifuscina	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB0081	2200_26_JB008	40.64108	-73.81602	8/4/1998	Corophium tuberculatum	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB0081	2200_26_JB008	40.64108	-73.81602	8/4/1998	Calyptraeidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB0081	2200_26_JB008	40.64108	-73.81602	8/4/1998	Hydroides	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB0081	2200_26_JB008	40.64108	-73.81602	8/4/1998	Limulus polyphemus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB0081	2200_26_JB008	40.64108	-73.81602	8/4/1998	Mya arenaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB0081	2200_26_JB008	40.64108	-73.81602	8/4/1998	Nereis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB0082	2200_26_JB008	40.64108	-73.81602	8/4/1998	Ampelisca abdita	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB0082	2200_26_JB008	40.64108	-73.81602	8/4/1998	Corophium tuberculatum	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB008	JB0082	2200_26_JB008	40.64108	-73.81602	8/4/1998	Leitoscoloplos fragilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB0181	2200_26_JB018	40.60868	-73.78607	8/5/1998	Ampelisca abdita	1	19	475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB0181	2200_26_JB018	40.60868	-73.78607	8/5/1998	Streblospio benedicti	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB0181	2200_26_JB018	40.60868	-73.78607	8/5/1998	Neomysis americana	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB0181	2200_26_JB018	40.60868	-73.78607	8/5/1998	Gammarus annulatus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB0181	2200_26_JB018	40.60868	-73.78607	8/5/1998	Mediomastus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB0182	2200_26_JB018	40.60868	-73.78607	8/5/1998	Neomysis americana	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB0182	2200_26_JB018	40.60868	-73.78607	8/5/1998	Streblospio benedicti	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB0182	2200_26_JB018	40.60868	-73.78607	8/5/1998	Ampelisca abdita	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB0182	2200_26_JB018	40.60868	-73.78607	8/5/1998	Crangon septemspinosa	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB018	JB0182	2200_26_JB018	40.60868	-73.78607	8/5/1998	Unciola dissimilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Corophium tuberculatum	1	3768	94200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Corophium acutum	1	2381	59525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Ampelisca abdita	1	2103	52575	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Microdeutopus gryllotalpa	1	645	16125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Elasmopus levis	1	589	14725	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Parasterope pollex	1	290	7250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Streblospio benedicti	1	276	6900	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Corophium acherusicum	1	193	4825	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Exogone rolani	1	182	4550	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Eobrolgus spinosus	1	118	2950	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Turbellaria	1	105	2625	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Corophium	1	97	2425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Lysianopsis alba	1	80	2000	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Ilyanassa obsoleta	1	51	1275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Mediomastus	1	28	700	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Xanthidae	1	25	625	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Oligochaeta	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Polydora cornuta	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Exogone	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Crepidula	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Syllidae	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Unciola dissimilis	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Crangon septemspinosa	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Podarke obscura	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Crepidula fornicata	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Unciola	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Gastropoda	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Leitoscoloplos fragilis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Mya arenaria	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Nucula proxima	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Phyllodocidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Aricidea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Asabellides oculata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Cyathura burbancki	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Demonax microphthalmus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Eumida sanguinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Glycera americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Harmothoe imbricata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Leitoscoloplos robustus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Maldanidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Melita	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Melita nitida	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Petricola pholadiformis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Podarkeopsis levifuscina	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Rhynchocoela	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Sabellidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Tellina agilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0261	2200_26_JB026	40.60341	-73.84164	8/7/1998	Tharyx acutus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Corophium tuberculatum	1	4590	114750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Ampelisca abdita	1	1464	36600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Corophium acutum	1	752	18800	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Elasmopus levis	1	475	11875	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Microdeutopus gryllotalpa	1	475	11875	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Streblospio benedicti	1	287	7175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Exogone dispar	1	88	2200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Parasterope pollex	1	82	2050	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Lysianopsis alba	1	79	1975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Turbellaria	1	53	1325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Corophium insidiosum	1	40	1000	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Eobrolgus spinosus	1	40	1000	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Mediomastus	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Harmothoe imbricata	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Nucula proxima	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Oligochaeta	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Polydora cornuta	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Demonax microphthalmus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Gastropoda	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Hypereteone heteropoda	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Ilyanassa obsoleta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Podarke obscura	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Tellina agilis	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Crangon septemspinosa	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Glycera americana	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Arabella mutans	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Calyptraeidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Mercenaria mercenaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Mya arenaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Nereis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Phyllodocidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Podarkeopsis levifuscina	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Rhynchocoela	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Tharyx acutus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB026	JB0262	2200_26_JB026	40.60341	-73.84164	8/7/1998	Unciola dissimilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Sabellaria vulgaris	1	494	12350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Mediomastus	1	86	2150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Ilyanassa obsoleta	1	62	1550	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Serpulidae	1	51	1275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Hydroides dianthus	1	45	1125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Streblospio benedicti	1	39	975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Mediomastus ambiseta	1	36	900	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Polydora cornuta	1	32	800	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Oligochaeta	1	27	675	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Crepidula fornicata	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Corophium tuberculatum	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Eumida sanguinea	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Tellina agilis	1	6	150	0.04

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Neanthes succinea	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Panopeus herbstii	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Ampelisca abdita	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Pagurus	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Elasmopus levis	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Mercenaria mercenaria	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Terebellidae	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Lineidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Aoridae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Calyptraeidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Glycera americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Hydrobiidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0311	2200_26_JB031	40.61118	-73.87153	8/8/1998	Pectinaria gouldii	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Mediomastus	1	94	2350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Ilyanassa obsoleta	1	56	1400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Sabellaria vulgaris	1	48	1200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Streblospio benedicti	1	21	525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Hydroides dianthus	1	16	400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Serpulidae	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Oligochaeta	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Crepidula fornicata	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Tellina agilis	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Mediomastus ambiseta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Corophium tuberculatum	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Leitoscoloplos fragilis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Mercenaria mercenaria	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Mya arenaria	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Neanthes succinea	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Polydora cornuta	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Calyptraeidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Crepidula plana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Elasmopus levis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Glycera americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Lineidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Nereis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Pagurus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB031	JB0312	2200_26_JB031	40.61118	-73.87153	8/8/1998	Phyllodocidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Ampelisca abdita	1	1832	45800	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Streblospio benedicti	1	95	2375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Microdeutopus gryllotalpa	1	81	2025	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Mediomastus	1	71	1775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Corophium tuberculatum	1	46	1150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Elasmopus levis	1	41	1025	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Neopanope sayi	1	24	600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Corophium acutum	1	15	375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Lysianopsis alba	1	15	375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Tellina agilis	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Unciola dissimilis	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Ilyanassa obsoleta	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Nucula proxima	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Pagurus	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Exogone dispar	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Crepidula fornicata	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Aoridae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Crangon septemspinosa	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Eobrolgus spinosus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Eupleura caudata	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Oligochaeta	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Parasterope pollex	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Asabellides oculata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Mediomastus ambiseta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Phyllodocidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Podarke obscura	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Polydora cornuta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0331	2200_26_JB033	40.61597	-73.88774	8/3/1998	Tellinidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Ampelisca abdita	1	2533	63325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Microdeutopus gryllotalpa	1	425	10625	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Streblospio benedicti	1	266	6650	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Mediomastus	1	174	4350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Lysianopsis alba	1	136	3400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Corophium tuberculatum	1	119	2975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Corophium acutum	1	102	2550	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Elasmopus levis	1	102	2550	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Ilyanassa obsoleta	1	61	1525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Xanthidae	1	44	1100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Nucula proxima	1	36	900	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Oligochaeta	1	35	875	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Parasterope pollex	1	18	450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Exogone dispar	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Tellina agilis	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Harmothoe imbricata	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Hypereteone heteropoda	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Eobrolgus spinosus	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Unciola dissimilis	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Crangon septemspinosa	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Mediomastus ambiseta	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Podarke obscura	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Phyllodocidae	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Spionidae	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Neomysis americana	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Polydora cornuta	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Rhynchocoela	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Cyathura polita	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Glycera americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB033	JB0332	2200_26_JB033	40.61597	-73.88774	8/3/1998	Leucon americanus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Ampelisca abdita	1	110	2750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Streblospio benedicti	1	46	1150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Nucula proxima	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Tellina agilis	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Crepidula fornicata	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Cirratulidae	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Ilyanassa obsoleta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Mediomastus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Neomysis americana	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Oligochaeta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Pagurus acadianus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Corophium tuberculatum	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Crangon septemspinosa	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Mediomastus ambiseta	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Neopanope sayi	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Tharyx acutus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Xanthidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Cancer irroratus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Eumida sanguinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Exogone rolani	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Harmothoe imbricata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Leitoscoloplos	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Lepidonotus sublevis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Mysidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Phyllodocidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Podarkeopsis levifuscina	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0391	2200_26_JB039	40.58668	-73.84556	8/1/1998	Polydora cornuta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Ampelisca abdita	1	692	17300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Streblospio benedicti	1	395	9875	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Mediomastus	1	349	8725	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Ilyanassa obsoleta	1	30	750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Elasmopus levis	1	24	600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Xanthidae	1	20	500	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Corophium tuberculatum	1	19	475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Nucula proxima	1	16	400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Bivalvia	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Lysianopsis alba	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Mya arenaria	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Cirratulidae	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Tellinidae	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Tharyx acutus	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Oligochaeta	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Phyllodocidae	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Polydora cornuta	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Mediomastus ambiseta	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Microdeutopus gryllotalpa	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Rhynchocoela	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Crangon septemspinosa	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Glycera americana	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Parasterope pollex	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Unciola dissimilis	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Exogone rolani	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Neopanope sayi	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Calyptraeidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Clymenella torquata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Decapoda	1	1	25	0.04

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Diopatra cuprea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Hypereteone heteropoda	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB039	JB0392	2200_26_JB039	40.58668	-73.84556	8/1/1998	Spionidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Ampelisca abdita	1	3590	89750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Streblospio benedicti	1	935	23375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Mediomastus	1	433	10825	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Corophium tuberculatum	1	310	7750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Tharyx acutus	1	258	6450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Cirratulidae	1	75	1875	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Oligochaeta	1	64	1600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Calyptraeidae	1	59	1475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Elasmopus levis	1	58	1450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Crepidula fornicata	1	51	1275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Spionidae	1	50	1250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Corophium acutum	1	45	1125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Xanthidae	1	32	800	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Tellina agilis	1	31	775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Heteromysis formosa	1	22	550	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Hypereteone heteropoda	1	22	550	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Mediomastus ambiseta	1	19	475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Polydora cornuta	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Corophium	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Harmothoe imbricata	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Microdeutopus gryllotalpa	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Ilyanassa obsoleta	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Neopanope sayi	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Parasterope pollex	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Phyllodocidae	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Glycera americana	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Neanthes succinea	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Capitella capitata	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Leitoscoloplos	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Lysianopsis alba	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Mya arenaria	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Rhynchocoela	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Bivalvia	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Crangon septemspinosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Crepidula plana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Eobrolgus spinosus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Exogone dispar	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Gastropoda	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Heteromastus filiformis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Lepidonotus sublevis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Melita	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Melitidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Microdeutopus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Nucula proxima	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Palaemonetes pugio	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Polygordius	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Polynoidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0411	2200_26_JB041	40.58559	-73.86012	8/1/1998	Urosalpinx cinera	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Ampelisca abdita	1	3249	81225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Streblospio benedicti	1	917	22925	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Mediomastus	1	677	16925	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Corophium tuberculatum	1	220	5500	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Oligochaeta	1	129	3225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Tellina agilis	1	128	3200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Cirratulidae	1	70	1750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Tharyx acutus	1	59	1475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Corophium acutum	1	28	700	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Elasmopus levis	1	23	575	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Xanthidae	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Phyllodocidae	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Mya arenaria	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Heteromysis formosa	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Microdeutopus gryllotalpa	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Crepidula fornicata	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Lysianopsis alba	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Ampharetidae	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Mediomastus ambiseta	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Capitella capitata	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Bivalvia	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Corophium	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Eobrolgus spinosus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Ilyanassa obsoleta	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Nucula proxima	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Rhynchocoela	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Scoletoma acicularum	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Terebellidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Aricidea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Asabellides oculata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Calyptraeidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Clymenella torquata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Edotia triloba	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Exogone dispar	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Gastropoda	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Glycera americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Mysidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Neomysis americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Polydora cornuta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB041	JB0412	2200_26_JB041	40.58559	-73.86012	8/1/1998	Rhithropanopeus harrisii	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0421	2200_26_JB042	40.58291	-73.84808	8/1/1998	Streblospio benedicti	1	89	2225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0421	2200_26_JB042	40.58291	-73.84808	8/1/1998	Tellina agilis	1	22	550	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0421	2200_26_JB042	40.58291	-73.84808	8/1/1998	Oligochaeta	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0421	2200_26_JB042	40.58291	-73.84808	8/1/1998	Mediomastus	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0421	2200_26_JB042	40.58291	-73.84808	8/1/1998	Sabellaria vulgaris	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0421	2200_26_JB042	40.58291	-73.84808	8/1/1998	Unciola dissimilis	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0421	2200_26_JB042	40.58291	-73.84808	8/1/1998	Aricidea	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0421	2200_26_JB042	40.58291	-73.84808	8/1/1998	Aricidea catherinae	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0421	2200_26_JB042	40.58291	-73.84808	8/1/1998	Nephtys picta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0421	2200_26_JB042	40.58291	-73.84808	8/1/1998	Pagurus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0421	2200_26_JB042	40.58291	-73.84808	8/1/1998	Xanthidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0421	2200_26_JB042	40.58291	-73.84808	8/1/1998	Ampelisca abdita	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0421	2200_26_JB042	40.58291	-73.84808	8/1/1998	Calyptraeidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0421	2200_26_JB042	40.58291	-73.84808	8/1/1998	Cancer irroratus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0421	2200_26_JB042	40.58291	-73.84808	8/1/1998	Caulleriella sp. J	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0421	2200_26_JB042	40.58291	-73.84808	8/1/1998	Elasmopus levis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0421	2200_26_JB042	40.58291	-73.84808	8/1/1998	Eumida sanguinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0421	2200_26_JB042	40.58291	-73.84808	8/1/1998	Gemma gemma	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0421	2200_26_JB042	40.58291	-73.84808	8/1/1998	Lineidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0421	2200_26_JB042	40.58291	-73.84808	8/1/1998	Mysidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Streblospio benedicti	1	144	3600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Mediomastus	1	109	2725	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Oligochaeta	1	41	1025	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Heteromysis formosa	1	29	725	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Tharyx acutus	1	22	550	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Tellina agilis	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Crepidula fornicata	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Mediomastus ambiseta	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Cirratulidae	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Hypereteone heteropoda	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Parapionosyllis longicirrata	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Ampelisca abdita	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Unciola	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Xanthidae	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Caulleriella sp. J	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Elasmopus levis	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Mya arenaria	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Calyptraeidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Eobrolgus spinosus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Phyllodocidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Corophium tuberculatum	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Crangon septemspinosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Gastropoda	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Lysianopsis alba	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Melita nitida	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Neomysis americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Neopanope sayi	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Orbinia americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Pagurus politus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Pectinaria gouldii	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Serpulidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Terebellidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB042	JB0422	2200_26_JB042	40.58291	-73.84808	8/1/1998	Unciola dissimilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Streblospio benedicti	1	344	8600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Mediomastus	1	263	6575	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Mediomastus ambiseta	1	90	2250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Tharyx acutus	1	72	1800	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Tellina agilis	1	40	1000	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Heteromysis formosa	1	26	650	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Cirratulidae	1	22	550	0.04

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Oligochaeta	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Neomysis americana	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Ampelisca abdita	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Eobrolgus spinosus	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Calyptraeidae	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Elasmopus levis	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Caulleriella sp. J	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Corophium tuberculatum	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Glycera americana	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Xanthidae	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Doridella obscura	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Cancer irroratus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Crepidula plana	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Harmothoe imbricata	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Mercenaria mercenaria	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Pagurus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Ampharetidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Bivalvia	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Crangon septemspinosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Crepidula fornicata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Eumida sanguinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Exogone dispar	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Hypereteone heteropoda	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Lysianopsis alba	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Nereis acuminata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Neanthes succinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Pectinaria gouldii	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Pherusa affinis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Phyllodocidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Pseudopolydora	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Rhynchocoela	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Sabellaria vulgaris	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Spiophanes bombyx	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Streptosyllis pettiboneae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0431	2200_26_JB043	40.57618	-73.87371	7/17/1998	Unciola dissimilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Streblospio benedicti	1	204	5100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Mediomastus	1	151	3775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Tharyx acutus	1	64	1600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Cirratulidae	1	57	1425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Oligochaeta	1	39	975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Tellina agilis	1	39	975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Unciola dissimilis	1	34	850	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Crepidula fornicata	1	25	625	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Mysidae	1	24	600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Heteromysis formosa	1	23	575	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Mediomastus ambiseta	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Lysianopsis alba	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Corophium tuberculatum	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Caulleriella sp. J	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Eobrolgus spinosus	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Crepidula plana	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Polycirrus eximius	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Calyptraeidae	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Ampelisca abdita	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Xanthidae	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Erichthonius brasiliensis	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Rhynchocoela	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Aoridae	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Eumida sanguinea	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Polygordius	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Crangon septemspinosa	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Elasmopus levis	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Harmothoe imbricata	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Polydora cornuta	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Corophiidae	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Doridella obscura	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Neopanope sayi	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Pagurus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Sabellaria vulgaris	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Ampharetidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Leitoscoloplos robustus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Mytilus edulis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Terebellidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Aricidea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Asabellides oculata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Caprella penantis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Cyathura polita	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Exogone dispar	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Glycera americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Lepidonotus sublevis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Lineidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Nereidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Neanthes succinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Phyllodoce arenae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Phyllodocidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Streptosyllis pettiboneae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB043	JB0432	2200_26_JB043	40.57618	-73.87371	7/17/1998	Urosalpinx cinera	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2011	2200_56_JB201	40.5718	-73.8794	7/17/1998	Microphthalmus	1	31	775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2011	2200_56_JB201	40.5718	-73.8794	7/17/1998	Eobrolgus spinosus	1	16	400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2011	2200_56_JB201	40.5718	-73.8794	7/17/1998	Tellina agilis	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2011	2200_56_JB201	40.5718	-73.8794	7/17/1998	Nephtys picta	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2011	2200_56_JB201	40.5718	-73.8794	7/17/1998	Rhynchocoela	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2011	2200_56_JB201	40.5718	-73.8794	7/17/1998	Acanthohaustorius millsi	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2011	2200_56_JB201	40.5718	-73.8794	7/17/1998	Crangon septemspinosa	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2011	2200_56_JB201	40.5718	-73.8794	7/17/1998	Polygordius	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2011	2200_56_JB201	40.5718	-73.8794	7/17/1998	Cancer irroratus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2011	2200_56_JB201	40.5718	-73.8794	7/17/1998	Lineidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2011	2200_56_JB201	40.5718	-73.8794	7/17/1998	Nephtys	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2011	2200_56_JB201	40.5718	-73.8794	7/17/1998	Orbinia americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2011	2200_56_JB201	40.5718	-73.8794	7/17/1998	Spionidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2011	2200_56_JB201	40.5718	-73.8794	7/17/1998	Terebellidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2011	2200_56_JB201	40.5718	-73.8794	7/17/1998	Travisia parva	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2012	2200_56_JB201	40.5718	-73.8794	7/17/1998	Tellina agilis	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2012	2200_56_JB201	40.5718	-73.8794	7/17/1998	Eobrolgus spinosus	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2012	2200_56_JB201	40.5718	-73.8794	7/17/1998	Polygordius	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2012	2200_56_JB201	40.5718	-73.8794	7/17/1998	Microphthalmus	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2012	2200_56_JB201	40.5718	-73.8794	7/17/1998	Nephtys picta	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2012	2200_56_JB201	40.5718	-73.8794	7/17/1998	Harmothoe imbricata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2012	2200_56_JB201	40.5718	-73.8794	7/17/1998	Magelona papillicornis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2012	2200_56_JB201	40.5718	-73.8794	7/17/1998	Mediomastus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2012	2200_56_JB201	40.5718	-73.8794	7/17/1998	Pagurus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2012	2200_56_JB201	40.5718	-73.8794	7/17/1998	Paraonis fulgens	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2012	2200_56_JB201	40.5718	-73.8794	7/17/1998	Sabellidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB201	JB2012	2200_56_JB201	40.5718	-73.8794	7/17/1998	Spisula solidissima	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Ampelisca abdita	1	915	22875	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Corophium tuberculatum	1	850	21250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Microdeutopus gryllotalpa	1	650	16250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Lysianopsis alba	1	200	5000	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Mediomastus	1	75	1875	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Ilyanassa obsoleta	1	52	1300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Podarke obscura	1	39	975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Oligochaeta	1	33	825	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Parasterope pollex	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Elasmopus levis	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Streblospio benedicti	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Xanthidae	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Mya arenaria	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Hesionidae	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Polydora cornuta	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Unciola dissimilis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Crangon septemspinosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Crepidula fornicata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Edotia triloba	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Harmothoe imbricata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Hypereteone heteropoda	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Neanthes succinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Phyllodocidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2021	2200_56_JB202	40.6118	-73.8101	8/6/1998	Turbellaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Ampelisca abdita	1	1218	30450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Corophium tuberculatum	1	282	7050	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Microdeutopus gryllotalpa	1	98	2450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Mediomastus	1	59	1475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Ilyanassa obsoleta	1	53	1325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Oligochaeta	1	43	1075	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Polydora cornuta	1	33	825	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Elasmopus levis	1	31	775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Lysianopsis alba	1	29	725	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Podarke obscura	1	27	675	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Parasterope pollex	1	16	400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Hesionidae	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Portunidae	1	6	150	0.04

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Unciola dissimilis	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Xanthidae	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Mediomastus ambiseta	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Neanthes succinea	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Calyptraeidae	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Mya arenaria	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Phyllodocidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Polycirrus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Aoridae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Capitella capitata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Caprella penantis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Cirratulidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Crangon septemspinosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Edotia triloba	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Eumida sanguinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Exogone rolani	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Gemma gemma	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Hydrobiidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Leitoscoloplos	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Nereidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Streblospio benedicti	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB202	JB2022	2200_56_JB202	40.6118	-73.8101	8/6/1998	Turbellaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB203	JB2031	2200_56_JB203	40.6328	-73.8067	8/4/1998	Ampelisca abdita	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB203	JB2031	2200_56_JB203	40.6328	-73.8067	8/4/1998	Limulus polyphemus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB203	JB2031	2200_56_JB203	40.6328	-73.8067	8/4/1998	Phyllodocidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB203	JB2032	2200_56_JB203	40.6328	-73.8067	8/4/1998	Ampelisca abdita	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB203	JB2032	2200_56_JB203	40.6328	-73.8067	8/4/1998	Limulus polyphemus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB203	JB2032	2200_56_JB203	40.6328	-73.8067	8/4/1998	Mediomastus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB204	JB2041	2200_56_JB204	40.6082	-73.8898	8/3/1998	Ampelisca abdita	1	30	750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB204	JB2041	2200_56_JB204	40.6082	-73.8898	8/3/1998	Streblospio benedicti	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB204	JB2041	2200_56_JB204	40.6082	-73.8898	8/3/1998	Ilyanassa obsoleta	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB204	JB2041	2200_56_JB204	40.6082	-73.8898	8/3/1998	Crangon septemspinosa	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB204	JB2041	2200_56_JB204	40.6082	-73.8898	8/3/1998	Elasmopus levis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB204	JB2041	2200_56_JB204	40.6082	-73.8898	8/3/1998	Oligochaeta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB204	JB2042	2200_56_JB204	40.6082	-73.8898	8/3/1998	Streblospio benedicti	1	54	1350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB204	JB2042	2200_56_JB204	40.6082	-73.8898	8/3/1998	Ampelisca abdita	1	35	875	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB204	JB2042	2200_56_JB204	40.6082	-73.8898	8/3/1998	Ilyanassa obsoleta	1	28	700	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB204	JB2042	2200_56_JB204	40.6082	-73.8898	8/3/1998	Mediomastus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB204	JB2042	2200_56_JB204	40.6082	-73.8898	8/3/1998	Calyptraeidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB204	JB2042	2200_56_JB204	40.6082	-73.8898	8/3/1998	Neomysis americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB204	JB2042	2200_56_JB204	40.6082	-73.8898	8/3/1998	Neanthes succinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB204	JB2042	2200_56_JB204	40.6082	-73.8898	8/3/1998	Parasterope pollex	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2051	2200_56_JB205	40.5890	-73.8593	8/1/1998	Ilyanassa obsoleta	1	19	475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2051	2200_56_JB205	40.5890	-73.8593	8/1/1998	Nephtys picta	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2051	2200_56_JB205	40.5890	-73.8593	8/1/1998	Tellina agilis	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2051	2200_56_JB205	40.5890	-73.8593	8/1/1998	Caulleriella sp. J	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2051	2200_56_JB205	40.5890	-73.8593	8/1/1998	Aricidea catherinae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2051	2200_56_JB205	40.5890	-73.8593	8/1/1998	Ampelisca abdita	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2051	2200_56_JB205	40.5890	-73.8593	8/1/1998	Crepidula fornicata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2051	2200_56_JB205	40.5890	-73.8593	8/1/1998	Elasmopus levis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2051	2200_56_JB205	40.5890	-73.8593	8/1/1998	Gemma gemma	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2051	2200_56_JB205	40.5890	-73.8593	8/1/1998	Leitoscoloplos fragilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2051	2200_56_JB205	40.5890	-73.8593	8/1/1998	Ovalipes ocellatus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2051	2200_56_JB205	40.5890	-73.8593	8/1/1998	Pagurus politus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2051	2200_56_JB205	40.5890	-73.8593	8/1/1998	Rhynchocoela	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2051	2200_56_JB205	40.5890	-73.8593	8/1/1998	Spiophanes bombyx	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2051	2200_56_JB205	40.5890	-73.8593	8/1/1998	Streblospio benedicti	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2052	2200_56_JB205	40.5890	-73.8593	8/1/1998	Ilyanassa obsoleta	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2052	2200_56_JB205	40.5890	-73.8593	8/1/1998	Tellina agilis	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2052	2200_56_JB205	40.5890	-73.8593	8/1/1998	Nephtys picta	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2052	2200_56_JB205	40.5890	-73.8593	8/1/1998	Streblospio benedicti	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2052	2200_56_JB205	40.5890	-73.8593	8/1/1998	Leitoscoloplos robustus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2052	2200_56_JB205	40.5890	-73.8593	8/1/1998	Aricidea catherinae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB205	JB2052	2200_56_JB205	40.5890	-73.8593	8/1/1998	Mediomastus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2061	2200_56_JB206	40.5954	-73.8047	8/5/1998	Ampelisca abdita	1	19	475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2061	2200_56_JB206	40.5954	-73.8047	8/5/1998	Corophium tuberculatum	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2061	2200_56_JB206	40.5954	-73.8047	8/5/1998	Mediomastus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2061	2200_56_JB206	40.5954	-73.8047	8/5/1998	Crangon septemspinosa	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2061	2200_56_JB206	40.5954	-73.8047	8/5/1998	Streblospio benedicti	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2061	2200_56_JB206	40.5954	-73.8047	8/5/1998	Mya arenaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2061	2200_56_JB206	40.5954	-73.8047	8/5/1998	Polydora cornuta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2062	2200_56_JB206	40.5954	-73.8047	8/5/1998	Ampelisca abdita	1	377	9425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2062	2200_56_JB206	40.5954	-73.8047	8/5/1998	Streblospio benedicti	1	92	2300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2062	2200_56_JB206	40.5954	-73.8047	8/5/1998	Corophium tuberculatum	1	56	1400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2062	2200_56_JB206	40.5954	-73.8047	8/5/1998	Polydora cornuta	1	52	1300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2062	2200_56_JB206	40.5954	-73.8047	8/5/1998	Crangon septemspinosa	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2062	2200_56_JB206	40.5954	-73.8047	8/5/1998	Spionidae	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2062	2200_56_JB206	40.5954	-73.8047	8/5/1998	Lysianopsis alba	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2062	2200_56_JB206	40.5954	-73.8047	8/5/1998	Mediomastus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2062	2200_56_JB206	40.5954	-73.8047	8/5/1998	Ovalipes ocellatus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2062	2200_56_JB206	40.5954	-73.8047	8/5/1998	Tharyx acutus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2062	2200_56_JB206	40.5954	-73.8047	8/5/1998	Cirratulidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2062	2200_56_JB206	40.5954	-73.8047	8/5/1998	Oligochaeta	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2062	2200_56_JB206	40.5954	-73.8047	8/5/1998	Podarke obscura	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2062	2200_56_JB206	40.5954	-73.8047	8/5/1998	Asabellides oculata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2062	2200_56_JB206	40.5954	-73.8047	8/5/1998	Ascidiacea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2062	2200_56_JB206	40.5954	-73.8047	8/5/1998	Exogone dispar	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2062	2200_56_JB206	40.5954	-73.8047	8/5/1998	Hypereteone heteropoda	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2062	2200_56_JB206	40.5954	-73.8047	8/5/1998	Leitoscoloplos robustus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB206	JB2062	2200_56_JB206	40.5954	-73.8047	8/5/1998	Portunidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2071	2200_56_JB207	40.6286	-73.7591	8/6/1998	Ampelisca abdita	1	994	24850	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2071	2200_56_JB207	40.6286	-73.7591	8/6/1998	Ilyanassa obsoleta	1	173	4325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2071	2200_56_JB207	40.6286	-73.7591	8/6/1998	Corophium tuberculatum	1	81	2025	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2071	2200_56_JB207	40.6286	-73.7591	8/6/1998	Podarke obscura	1	79	1975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2071	2200_56_JB207	40.6286	-73.7591	8/6/1998	Lysianopsis alba	1	30	750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2071	2200_56_JB207	40.6286	-73.7591	8/6/1998	Oligochaeta	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2071	2200_56_JB207	40.6286	-73.7591	8/6/1998	Schistomeringos rudolphi	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2071	2200_56_JB207	40.6286	-73.7591	8/6/1998	Mya arenaria	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2071	2200_56_JB207	40.6286	-73.7591	8/6/1998	Xanthidae	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2071	2200_56_JB207	40.6286	-73.7591	8/6/1998	Cirratulidae	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2071	2200_56_JB207	40.6286	-73.7591	8/6/1998	Mercenaria mercenaria	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2071	2200_56_JB207	40.6286	-73.7591	8/6/1998	Odostomia	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2071	2200_56_JB207	40.6286	-73.7591	8/6/1998	Ovalipes ocellatus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2071	2200_56_JB207	40.6286	-73.7591	8/6/1998	Calyptraeidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2071	2200_56_JB207	40.6286	-73.7591	8/6/1998	Crangon septemspinosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2071	2200_56_JB207	40.6286	-73.7591	8/6/1998	Crepidula fornicata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2071	2200_56_JB207	40.6286	-73.7591	8/6/1998	Glycera americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2071	2200_56_JB207	40.6286	-73.7591	8/6/1998	Mediomastus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2071	2200_56_JB207	40.6286	-73.7591	8/6/1998	Polydora cornuta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2072	2200_56_JB207	40.6286	-73.7591	8/6/1998	Ampelisca abdita	1	150	3750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2072	2200_56_JB207	40.6286	-73.7591	8/6/1998	Podarke obscura	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2072	2200_56_JB207	40.6286	-73.7591	8/6/1998	Ilyanassa obsoleta	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2072	2200_56_JB207	40.6286	-73.7591	8/6/1998	Mediomastus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2072	2200_56_JB207	40.6286	-73.7591	8/6/1998	Tharyx acutus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2072	2200_56_JB207	40.6286	-73.7591	8/6/1998	Xanthidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB207	JB2072	2200_56_JB207	40.6286	-73.7591	8/6/1998	Polydora cornuta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Ampelisca abdita	1	2796	69900	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Corophium tuberculatum	1	657	16425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Xanthidae	1	49	1225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Podarke obscura	1	46	1150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Elasmopus levis	1	42	1050	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Microdeutopus gryllotalpa	1	36	900	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Lysianopsis alba	1	31	775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Mediomastus	1	25	625	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Oligochaeta	1	20	500	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Cyathura polita	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Hesionidae	1	15	375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Palaemonetes pugio	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Cirratulidae	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Mediomastus ambiseta	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Mya arenaria	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Tharyx acutus	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Crangon septemspinosa	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Ilyanassa obsoleta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Polydora cornuta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Harmothoe imbricata	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Heteromastus filiformis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Turbellaria	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Asabellides oculata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Bivalvia	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Calyptraeidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Harmothoe	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2091	2200_56_JB209	40.6051	-73.7872	8/5/1998	Phyllodocidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Ampelisca abdita	1	2463	61575	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Mediomastus	1	165	4125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Corophium tuberculatum	1	111	2775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Oligochaeta	1	82	2050	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Microdeutopus gryllotalpa	1	50	1250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Streblospio benedicti	1	43	1075	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Elasmopus levis	1	34	850	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Xanthidae	1	32	800	0.04

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Cyathura polita	1	23	575	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Podarke obscura	1	16	400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Lysianopsis alba	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Tharyx acutus	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Polydora cornuta	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Neopanope sayi	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Cirratulidae	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Crangon septemspinosa	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Ilyanassa obsoleta	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Palaemonetes pugio	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Bivalvia	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Hesionidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Mya arenaria	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Aoridae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Glycera americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Harmothoe	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Mediomastus ambiseta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Neomysis americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB209	JB2092	2200_56_JB209	40.6051	-73.7872	8/5/1998	Phyllodocidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2101	2200_56_JB210	40.6275	-73.8712	8/8/1998	Ilyanassa obsoleta	1	126	3150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2101	2200_56_JB210	40.6275	-73.8712	8/8/1998	Polydora cornuta	1	20	500	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2101	2200_56_JB210	40.6275	-73.8712	8/8/1998	Hydrozoa	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2101	2200_56_JB210	40.6275	-73.8712	8/8/1998	Corophium tuberculatum	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2101	2200_56_JB210	40.6275	-73.8712	8/8/1998	Leitoscoloplos robustus	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2101	2200_56_JB210	40.6275	-73.8712	8/8/1998	Neanthes succinea	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2101	2200_56_JB210	40.6275	-73.8712	8/8/1998	Leitoscoloplos	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2101	2200_56_JB210	40.6275	-73.8712	8/8/1998	Neopanope sayi	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2101	2200_56_JB210	40.6275	-73.8712	8/8/1998	Oligochaeta	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2101	2200_56_JB210	40.6275	-73.8712	8/8/1998	Xanthidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2101	2200_56_JB210	40.6275	-73.8712	8/8/1998	Ampelisca abdita	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2101	2200_56_JB210	40.6275	-73.8712	8/8/1998	Elasmopus levis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2101	2200_56_JB210	40.6275	-73.8712	8/8/1998	Pagurus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2101	2200_56_JB210	40.6275	-73.8712	8/8/1998	Pectinaria gouldii	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2101	2200_56_JB210	40.6275	-73.8712	8/8/1998	Streblospio benedicti	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Ilyanassa obsoleta	1	136	3400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Streblospio benedicti	1	66	1650	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Oligochaeta	1	44	1100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Mediomastus	1	18	450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Odostomia trifida	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Mediomastus ambiseta	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Tharyx acutus	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Elasmopus levis	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Leitoscoloplos robustus	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Polydora cornuta	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Ampelisca abdita	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Corophium	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Xanthidae	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Crepidula fornicata	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Leitoscoloplos	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Pagurus politus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Calyptraeidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Capitellidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Corophium tuberculatum	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Crangon septemspinosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Hydrozoa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Mercenaria mercenaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Microdeutopus gryllotalpa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Nereis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Podarke obscura	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB210	JB2102	2200_56_JB210	40.6275	-73.8712	8/8/1998	Serpulidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2111	2200_56_JB211	40.6120	-73.8725	8/8/1998	Ilyanassa obsoleta	1	52	1300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2111	2200_56_JB211	40.6120	-73.8725	8/8/1998	Crepidula fornicata	1	21	525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2111	2200_56_JB211	40.6120	-73.8725	8/8/1998	Sabellaria vulgaris	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2111	2200_56_JB211	40.6120	-73.8725	8/8/1998	Xanthidae	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2111	2200_56_JB211	40.6120	-73.8725	8/8/1998	Pagurus politus	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2111	2200_56_JB211	40.6120	-73.8725	8/8/1998	Serpulidae	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2111	2200_56_JB211	40.6120	-73.8725	8/8/1998	Mediomastus ambiseta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2111	2200_56_JB211	40.6120	-73.8725	8/8/1998	Ampelisca abdita	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2111	2200_56_JB211	40.6120	-73.8725	8/8/1998	Neanthes succinea	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2111	2200_56_JB211	40.6120	-73.8725	8/8/1998	Sabellidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2111	2200_56_JB211	40.6120	-73.8725	8/8/1998	Crepidula plana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2111	2200_56_JB211	40.6120	-73.8725	8/8/1998	Eumida sanguinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2111	2200_56_JB211	40.6120	-73.8725	8/8/1998	Eupleura caudata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2111	2200_56_JB211	40.6120	-73.8725	8/8/1998	Glycera americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2111	2200_56_JB211	40.6120	-73.8725	8/8/1998	Hydroides	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2111	2200_56_JB211	40.6120	-73.8725	8/8/1998	Hydroides dianthus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2111	2200_56_JB211	40.6120	-73.8725	8/8/1998	Leitoscoloplos robustus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2111	2200_56_JB211	40.6120	-73.8725	8/8/1998	Mediomastus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2111	2200_56_JB211	40.6120	-73.8725	8/8/1998	Neopanope sayi	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2111	2200_56_JB211	40.6120	-73.8725	8/8/1998	Streblospio benedicti	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2112	2200_56_JB211	40.6120	-73.8725	8/8/1998	Corophium tuberculatum	1	70	1750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2112	2200_56_JB211	40.6120	-73.8725	8/8/1998	Ilyanassa obsoleta	1	45	1125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2112	2200_56_JB211	40.6120	-73.8725	8/8/1998	Calyptraeidae	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2112	2200_56_JB211	40.6120	-73.8725	8/8/1998	Syllidae	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2112	2200_56_JB211	40.6120	-73.8725	8/8/1998	Xanthidae	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2112	2200_56_JB211	40.6120	-73.8725	8/8/1998	Crepidula fornicata	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2112	2200_56_JB211	40.6120	-73.8725	8/8/1998	Lineidae	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2112	2200_56_JB211	40.6120	-73.8725	8/8/1998	Ampelisca abdita	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2112	2200_56_JB211	40.6120	-73.8725	8/8/1998	Doridella obscura	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2112	2200_56_JB211	40.6120	-73.8725	8/8/1998	Eurypanopeus depressus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2112	2200_56_JB211	40.6120	-73.8725	8/8/1998	Mya arenaria	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2112	2200_56_JB211	40.6120	-73.8725	8/8/1998	Crepidula plana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2112	2200_56_JB211	40.6120	-73.8725	8/8/1998	Hydroides dianthus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2112	2200_56_JB211	40.6120	-73.8725	8/8/1998	Hydrozoa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2112	2200_56_JB211	40.6120	-73.8725	8/8/1998	Lysianopsis alba	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2112	2200_56_JB211	40.6120	-73.8725	8/8/1998	Mercenaria mercenaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2112	2200_56_JB211	40.6120	-73.8725	8/8/1998	Mytilus edulis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2112	2200_56_JB211	40.6120	-73.8725	8/8/1998	Parasterope pollex	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2112	2200_56_JB211	40.6120	-73.8725	8/8/1998	Polydora cornuta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB211	JB2112	2200_56_JB211	40.6120	-73.8725	8/8/1998	Tellina agilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB212	JB2121	2200_56_JB212	40.5881	-73.8335	8/6/1998	Ilyanassa obsoleta	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB212	JB2121	2200_56_JB212	40.5881	-73.8335	8/6/1998	Calyptraeidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB212	JB2121	2200_56_JB212	40.5881	-73.8335	8/6/1998	Tharyx acutus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB212	JB2121	2200_56_JB212	40.5881	-73.8335	8/6/1998	Gemma gemma	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB212	JB2121	2200_56_JB212	40.5881	-73.8335	8/6/1998	Hydrozoa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB212	JB2121	2200_56_JB212	40.5881	-73.8335	8/6/1998	Unciola	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB212	JB2122	2200_56_JB212	40.5881	-73.8335	8/6/1998	Ilyanassa obsoleta	1	23	575	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB212	JB2122	2200_56_JB212	40.5881	-73.8335	8/6/1998	Unciola dissimilis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB212	JB2122	2200_56_JB212	40.5881	-73.8335	8/6/1998	Cancer irroratus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB212	JB2122	2200_56_JB212	40.5881	-73.8335	8/6/1998	Crepidula fornicata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB212	JB2122	2200_56_JB212	40.5881	-73.8335	8/6/1998	Pagurus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB212	JB2122	2200_56_JB212	40.5881	-73.8335	8/6/1998	Paraonidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB212	JB2122	2200_56_JB212	40.5881	-73.8335	8/6/1998	Sabellaria vulgaris	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB213	JB2131	2200_56_JB213	40.6189	-73.7777	8/5/1998	Streblospio benedicti	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB213	JB2131	2200_56_JB213	40.6189	-73.7777	8/5/1998	Ampelisca abdita	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB213	JB2131	2200_56_JB213	40.6189	-73.7777	8/5/1998	Decapoda	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB213	JB2132	2200_56_JB213	40.6189	-73.7777	8/5/1998	Ampelisca abdita	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2141	2200_56_JB214	40.6426	-73.8581	8/3/1998	Streblospio benedicti	1	448	11200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2141	2200_56_JB214	40.6426	-73.8581	8/3/1998	Oligochaeta	1	42	1050	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2141	2200_56_JB214	40.6426	-73.8581	8/3/1998	Polydora cornuta	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2141	2200_56_JB214	40.6426	-73.8581	8/3/1998	Phyllodocidae	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2141	2200_56_JB214	40.6426	-73.8581	8/3/1998	Mediomastus	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2141	2200_56_JB214	40.6426	-73.8581	8/3/1998	Mediomastus ambiseta	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2141	2200_56_JB214	40.6426	-73.8581	8/3/1998	Pagurus	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2141	2200_56_JB214	40.6426	-73.8581	8/3/1998	Bivalvia	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2141	2200_56_JB214	40.6426	-73.8581	8/3/1998	Tharyx acutus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2141	2200_56_JB214	40.6426	-73.8581	8/3/1998	Calyptraeidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2141	2200_56_JB214	40.6426	-73.8581	8/3/1998	Cirratulidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2141	2200_56_JB214	40.6426	-73.8581	8/3/1998	Hydrozoa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2141	2200_56_JB214	40.6426	-73.8581	8/3/1998	Leitoscoloplos robustus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2141	2200_56_JB214	40.6426	-73.8581	8/3/1998	Ovalipes ocellatus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2141	2200_56_JB214	40.6426	-73.8581	8/3/1998	Rhynchocoela	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2141	2200_56_JB214	40.6426	-73.8581	8/3/1998	Unciola dissimilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Ampelisca abdita	1	3717	92925	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Corophium tuberculatum	1	268	6700	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Ilyanassa obsoleta	1	56	1400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Microdeutopus gryllotalpa	1	43	1075	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Oligochaeta	1	43	1075	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Mediomastus	1	40	1000	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Elasmopus levis	1	32	800	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Lysianopsis alba	1	21	525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Podarke obscura	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Mya arenaria	1	16	400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Xanthidae	1	16	400	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Neanthes succinea	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Streblospio benedicti	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Bivalvia	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Mediomastus ambiseta	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Odostomia trifida	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Polydora cornuta	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Cyathura polita	1	2	50	0.04

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Heteromastus filiformis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Nereis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Nucula proxima	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Polycirrus eximius	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Calyptraeidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Harmothoe imbricata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Hesionidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Leitoscoloplos robustus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Pagurus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Podarkeopsis levifuscina	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Spionidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Tellina agilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Terebellidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB214	JB2142	2200_56_JB214	40.6426	-73.8581	8/3/1998	Turbellaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Corophium tuberculatum	1	1917	47925	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Ampelisca abdita	1	984	24600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Sabellaria vulgaris	1	126	3150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Elasmopus levis	1	117	2925	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Streblospio benedicti	1	76	1900	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Polydora cornuta	1	44	1100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Pagurus politus	1	43	1075	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Xanthidae	1	42	1050	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Lysianopsis alba	1	21	525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Neopanope sayi	1	18	450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Hydrobiidae	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Mediomastus	1	13	325	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Unciola dissimilis	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Eobrolgus spinosus	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Gemma gemma	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Leitoscoloplos robustus	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Microdeutopus gryllotalpa	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Turbellaria	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Crepidula fornicata	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Neanthes succinea	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Pagurus	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Eupleura caudata	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Parasterope pollex	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Cirratulidae	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Demonax microphthalmus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Eusarsiella zostericola	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Ilyanassa obsoleta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Leitoscoloplos	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Mya arenaria	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Podarke obscura	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Polycirrus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Polycirrus eximius	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Tellina agilis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Tharyx acutus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Unciola	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Hydrozoa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Ilyanassa trivittata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Nereis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Oligochaeta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Palaemonetes pugio	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Phyllodocidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Sabellidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2151	2200_56_JB215	40.6256	-73.8370	8/10/1998	Serpulidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Corophium tuberculatum	1	1023	25575	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Ampelisca abdita	1	798	19950	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Elasmopus levis	1	124	3100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Lysianopsis alba	1	122	3050	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Streblospio benedicti	1	99	2475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Microdeutopus gryllotalpa	1	60	1500	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Ilyanassa obsoleta	1	59	1475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Mediomastus	1	30	750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Oligochaeta	1	17	425	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Eobrolgus spinosus	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Parasterope pollex	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Phyllodocidae	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Unciola dissimilis	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Gemma gemma	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Clymenella torquata	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Leitoscoloplos	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Leitoscoloplos robustus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Nereis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Bivalvia	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Crangon septemspinosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Edotia triloba	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Heteromastus filiformis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Mercenaria mercenaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Mya arenaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Pectinaria gouldii	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Phoxocephalidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Podarkeopsis levifuscina	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Portunidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB215	JB2152	2200_56_JB215	40.6256	-73.8370	8/10/1998	Turbellaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Ampelisca abdita	1	4950	123750	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Elasmopus levis	1	615	15375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Corophium tuberculatum	1	455	11375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Streblospio benedicti	1	415	10375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Microdeutopus gryllotalpa	1	325	8125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Oligochaeta	1	206	5150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Caulleriella sp. J	1	163	4075	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Mediomastus	1	139	3475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Aricidea catherinae	1	102	2550	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Lysianopsis alba	1	95	2375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Unciola dissimilis	1	34	850	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Podarke obscura	1	33	825	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Ilyanassa obsoleta	1	22	550	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Cirratulidae	1	20	500	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Turbellaria	1	20	500	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Neopanope sayi	1	19	475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Aricidea	1	18	450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Xanthidae	1	18	450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Polydora cornuta	1	15	375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Cyathura burbancki	1	10	250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Hesionidae	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Mediomastus ambiseta	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Eobrolgus spinosus	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Tellina agilis	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Leitoscoloplos robustus	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Phyllodocidae	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Mya arenaria	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Sabellidae	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Demonax microphthalmus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Erichthonius brasiliensis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Pontogeneia inermis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Rhynchocoela	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Asabellides oculata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Eumida sanguinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Exogone	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Glycera americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Hydrozoa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Hypereteone heteropoda	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Melita nitida	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Nephtys picta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Nereis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Neanthes succinea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Ovalipes	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Paguridae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Parasterope pollex	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Scolelepis texana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2161	2200_56_JB216	40.6330	-73.8734	8/8/1998	Unciola	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Ampelisca abdita	1	3143	78575	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Elasmopus levis	1	321	8025	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Corophium tuberculatum	1	198	4950	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Streblospio benedicti	1	155	3875	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Microdeutopus gryllotalpa	1	115	2875	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Caulleriella sp. J	1	74	1850	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Aricidea catherinae	1	50	1250	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Oligochaeta	1	44	1100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Lysianopsis alba	1	36	900	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Mediomastus	1	33	825	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Unciola dissimilis	1	28	700	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Xanthidae	1	28	700	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Ilyanassa trivittata	1	21	525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Podarke obscura	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Turbellaria	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Aricidea	1	11	275	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Cyathura burbancki	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Cirratulidae	1	7	175	0.04

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Demonax microphthalmus	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Polydora cornuta	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Eobrolgus spinosus	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Crangon septemspinosa	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Hypereteone heteropoda	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Neanthes succinea	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Urosalpinx cinera	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Cossura delta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Leitoscoloplos robustus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Paguridae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Parasterope pollex	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Phyllodocidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Polycirrus eximius	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB216	JB2162	2200_56_JB216	40.6330	-73.8734	8/8/1998	Tellina agilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2171	2200_56_JB217	40.5853	-73.8522	8/10/1998	Streblospio benedicti	1	104	2600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2171	2200_56_JB217	40.5853	-73.8522	8/10/1998	Crepidula fornicata	1	31	775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2171	2200_56_JB217	40.5853	-73.8522	8/10/1998	Tellina agilis	1	15	375	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2171	2200_56_JB217	40.5853	-73.8522	8/10/1998	Mediomastus	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2171	2200_56_JB217	40.5853	-73.8522	8/10/1998	Pagurus politus	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2171	2200_56_JB217	40.5853	-73.8522	8/10/1998	Sabellaria vulgaris	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2171	2200_56_JB217	40.5853	-73.8522	8/10/1998	Aricidea	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2171	2200_56_JB217	40.5853	-73.8522	8/10/1998	Cirratulidae	1	6	150	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2171	2200_56_JB217	40.5853	-73.8522	8/10/1998	Oligochaeta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2171	2200_56_JB217	40.5853	-73.8522	8/10/1998	Unciola serrata	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2171	2200_56_JB217	40.5853	-73.8522	8/10/1998	Mysidacea	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2171	2200_56_JB217	40.5853	-73.8522	8/10/1998	Neopanope sayi	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2171	2200_56_JB217	40.5853	-73.8522	8/10/1998	Ampelisca abdita	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2171	2200_56_JB217	40.5853	-73.8522	8/10/1998	Hydrobia	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2171	2200_56_JB217	40.5853	-73.8522	8/10/1998	Mediomastus ambiseta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2171	2200_56_JB217	40.5853	-73.8522	8/10/1998	Mercenaria mercenaria	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2171	2200_56_JB217	40.5853	-73.8522	8/10/1998	Nereidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2171	2200_56_JB217	40.5853	-73.8522	8/10/1998	Sabellidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2171	2200_56_JB217	40.5853	-73.8522	8/10/1998	Xanthidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Streblospio benedicti	1	194	4850	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Mediomastus	1	68	1700	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Tellina agilis	1	31	775	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Crepidula fornicata	1	25	625	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Oligochaeta	1	18	450	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Aricidea	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Cirratulidae	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Unciola serrata	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Ampelisca abdita	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Neopanope sayi	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Sabellaria vulgaris	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Mediomastus ambiseta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Cancer irroratus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Caulleriella sp. J	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Heteromysis formosa	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Pagurus politus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Tharyx acutus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Elasmopus levis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Glycera americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Nephtys picta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Nereis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB217	JB2172	2200_56_JB217	40.5853	-73.8522	8/10/1998	Serpulidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2191	2200_56_JB219	40.5749	-73.8870	8/8/1998	Tellina agilis	1	12	300	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2191	2200_56_JB219	40.5749	-73.8870	8/8/1998	Rhepoxynius hudsoni	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2191	2200_56_JB219	40.5749	-73.8870	8/8/1998	Acanthohaustorius millsi	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2191	2200_56_JB219	40.5749	-73.8870	8/8/1998	Gemma gemma	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2191	2200_56_JB219	40.5749	-73.8870	8/8/1998	Haustoriidae	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2191	2200_56_JB219	40.5749	-73.8870	8/8/1998	Nephtys picta	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2191	2200_56_JB219	40.5749	-73.8870	8/8/1998	Rhynchocoela	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2191	2200_56_JB219	40.5749	-73.8870	8/8/1998	Ampelisca abdita	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2191	2200_56_JB219	40.5749	-73.8870	8/8/1998	Caulleriella sp. J	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2191	2200_56_JB219	40.5749	-73.8870	8/8/1998	Crangon septemspinosa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2191	2200_56_JB219	40.5749	-73.8870	8/8/1998	Crepidula fornicata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2191	2200_56_JB219	40.5749	-73.8870	8/8/1998	Microdeutopus gryllotalpa	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2191	2200_56_JB219	40.5749	-73.8870	8/8/1998	Oligochaeta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2191	2200_56_JB219	40.5749	-73.8870	8/8/1998	Protohaustorius wigleyi	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2192	2200_56_JB219	40.5749	-73.8870	8/8/1998	Rhepoxynius hudsoni	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2192	2200_56_JB219	40.5749	-73.8870	8/8/1998	Tellina agilis	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2192	2200_56_JB219	40.5749	-73.8870	8/8/1998	Elasmopus levis	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2192	2200_56_JB219	40.5749	-73.8870	8/8/1998	Gammarus	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2192	2200_56_JB219	40.5749	-73.8870	8/8/1998	Protohaustorius wigleyi	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2192	2200_56_JB219	40.5749	-73.8870	8/8/1998	Spisula solidissima	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB219	JB2192	2200_56_JB219	40.5749	-73.8870	8/8/1998	Unciola dissimilis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2221	2200_56_JB222	40.6032	-73.8777	8/11/1998	Streblospio benedicti	1	43	1075	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2221	2200_56_JB222	40.6032	-73.8777	8/11/1998	Mediomastus	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2221	2200_56_JB222	40.6032	-73.8777	8/11/1998	Tellina agilis	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2221	2200_56_JB222	40.6032	-73.8777	8/11/1998	Leitoscoloplos robustus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2221	2200_56_JB222	40.6032	-73.8777	8/11/1998	Nucula proxima	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2221	2200_56_JB222	40.6032	-73.8777	8/11/1998	Ovalipes ocellatus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2221	2200_56_JB222	40.6032	-73.8777	8/11/1998	Pagurus politus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2222	2200_56_JB222	40.6032	-73.8777	8/11/1998	Streblospio benedicti	1	367	9175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2222	2200_56_JB222	40.6032	-73.8777	8/11/1998	Mediomastus	1	64	1600	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2222	2200_56_JB222	40.6032	-73.8777	8/11/1998	Tellina agilis	1	21	525	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2222	2200_56_JB222	40.6032	-73.8777	8/11/1998	Caulleriella sp. J	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2222	2200_56_JB222	40.6032	-73.8777	8/11/1998	Nucula proxima	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2222	2200_56_JB222	40.6032	-73.8777	8/11/1998	Aricidea catherinae	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2222	2200_56_JB222	40.6032	-73.8777	8/11/1998	Cirratulidae	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2222	2200_56_JB222	40.6032	-73.8777	8/11/1998	Unciola dissimilis	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2222	2200_56_JB222	40.6032	-73.8777	8/11/1998	Oligochaeta	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2222	2200_56_JB222	40.6032	-73.8777	8/11/1998	Ampelisca abdita	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2222	2200_56_JB222	40.6032	-73.8777	8/11/1998	Ampharetidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2222	2200_56_JB222	40.6032	-73.8777	8/11/1998	Aricidea	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2222	2200_56_JB222	40.6032	-73.8777	8/11/1998	Crepidula fornicata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2222	2200_56_JB222	40.6032	-73.8777	8/11/1998	Neomysis americana	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2222	2200_56_JB222	40.6032	-73.8777	8/11/1998	Ovalipes ocellatus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2222	2200_56_JB222	40.6032	-73.8777	8/11/1998	Pagurus politus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB222	JB2222	2200_56_JB222	40.6032	-73.8777	8/11/1998	Spionidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2231	2200_56_JB223	40.5926	-73.8707	8/10/1998	Ampelisca abdita	1	1002	25050	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2231	2200_56_JB223	40.5926	-73.8707	8/10/1998	Streblospio benedicti	1	179	4475	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2231	2200_56_JB223	40.5926	-73.8707	8/10/1998	Nucula proxima	1	77	1925	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2231	2200_56_JB223	40.5926	-73.8707	8/10/1998	Mediomastus	1	38	950	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2231	2200_56_JB223	40.5926	-73.8707	8/10/1998	Oligochaeta	1	32	800	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2231	2200_56_JB223	40.5926	-73.8707	8/10/1998	Ilyanassa obsoleta	1	7	175	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2231	2200_56_JB223	40.5926	-73.8707	8/10/1998	Polydora cornuta	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2231	2200_56_JB223	40.5926	-73.8707	8/10/1998	Crangon septemspinosa	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2231	2200_56_JB223	40.5926	-73.8707	8/10/1998	Tellina	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2231	2200_56_JB223	40.5926	-73.8707	8/10/1998	Mulinia lateralis	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2231	2200_56_JB223	40.5926	-73.8707	8/10/1998	Pitar morrhuanus	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2231	2200_56_JB223	40.5926	-73.8707	8/10/1998	Asabellides oculata	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2231	2200_56_JB223	40.5926	-73.8707	8/10/1998	Calyptraeidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2231	2200_56_JB223	40.5926	-73.8707	8/10/1998	Cirratulidae	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2231	2200_56_JB223	40.5926	-73.8707	8/10/1998	Leitoscoloplos robustus	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2232	2200_56_JB223	40.5926	-73.8707	8/10/1998	Ampelisca abdita	1	278	6950	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2232	2200_56_JB223	40.5926	-73.8707	8/10/1998	Nucula proxima	1	76	1900	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2232	2200_56_JB223	40.5926	-73.8707	8/10/1998	Streblospio benedicti	1	39	975	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2232	2200_56_JB223	40.5926	-73.8707	8/10/1998	Mediomastus	1	14	350	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2232	2200_56_JB223	40.5926	-73.8707	8/10/1998	Oligochaeta	1	9	225	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2232	2200_56_JB223	40.5926	-73.8707	8/10/1998	Tellina agilis	1	8	200	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2232	2200_56_JB223	40.5926	-73.8707	8/10/1998	Ilyanassa trivittata	1	5	125	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2232	2200_56_JB223	40.5926	-73.8707	8/10/1998	Crangon septemspinosa	1	4	100	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2232	2200_56_JB223	40.5926	-73.8707	8/10/1998	Odostomia trifida	1	3	75	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2232	2200_56_JB223	40.5926	-73.8707	8/10/1998	Calyptraeidae	1	2	50	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2232	2200_56_JB223	40.5926	-73.8707	8/10/1998	Batea catharinensis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2232	2200_56_JB223	40.5926	-73.8707	8/10/1998	Lepidonotus sublevis	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB223	JB2232	2200_56_JB223	40.5926	-73.8707	8/10/1998	Polydora cornuta	1	1	25	0.04
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-1	JB301	40.629	-73.759	7/31/2003	Ampelisca abdita	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-1	JB301	40.629	-73.759	7/31/2003	Crepidula fornicata	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-1	JB301	40.629	-73.759	7/31/2003	Microphthalmus hartmanae	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-1	JB301	40.629	-73.759	7/31/2003	Mysidae	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-1	JB301	40.629	-73.759	7/31/2003	Nephtys	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-1	JB301	40.629	-73.759	7/31/2003	Nephtys picta	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-1	JB301	40.629	-73.759	7/31/2003	Pagurus longicarpus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-1	JB301	40.629	-73.759	7/31/2003	Polycirrus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-1	JB301	40.629	-73.759	7/31/2003	Polygordius	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-1	JB301	40.629	-73.759	7/31/2003	Rhepoxynius hudsoni	1	20	400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-1	JB301	40.629	-73.759	7/31/2003	Spiophanes bombyx	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-1	JB301	40.629	-73.759	7/31/2003	Tellina agilis	1	22	440	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Ampelisca abdita	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Asteroidea	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Cirrophorus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Crepidula fornicata	1	6	120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Echinoidea	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Harmothoe imbricata	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Heteromysis formosa	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Hydroides dianthus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Nephtys picta	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Pagurus longicarpus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Polycirrus	1	3	60	0.05

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Polycirrus sp. g	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Polygordius	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Rhepoxynius hudsoni	1	51	1020	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Sabellaria vulgaris	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Scoloplos	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Sigalion arenicola	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Spisula solidissima	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Stenothoe	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Tellina agilis	1	42	840	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Tubificidae	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB301	JB301-2	JB301	40.629	-73.759	7/31/2003	Unciola serrata	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB303	JB303-1	JB303	40.619	-73.778	8/8/2003	Ampelisca abdita	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB303	JB303-2	JB303	40.619	-73.778	8/8/2003	Ampelisca abdita	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB303	JB303-2	JB303	40.619	-73.778	8/8/2003	Crepidula plana	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB303	JB303-2	JB303	40.619	-73.778	8/8/2003	Limulus polyphemus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB303	JB303-2	JB303	40.619	-73.778	8/8/2003	Phyllodocidae	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-1	JB305	40.575	-73.87	8/7/2003	Acteocina canaliculata	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-1	JB305	40.575	-73.87	8/7/2003	Ampelisca abdita	1	63	1260	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-1	JB305	40.575	-73.87	8/7/2003	Cirratulidae	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-1	JB305	40.575	-73.87	8/7/2003	Corophium tuberculatum	1	5	100	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-1	JB305	40.575	-73.87	8/7/2003	Crangon septemspinosa	1	9	180	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-1	JB305	40.575	-73.87	8/7/2003	Crepidula	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-1	JB305	40.575	-73.87	8/7/2003	Glycera americana	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-1	JB305	40.575	-73.87	8/7/2003	Ilyanassa trivittata	1	11	220	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-1	JB305	40.575	-73.87	8/7/2003	Mediomastus ambiseta	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-1	JB305	40.575	-73.87	8/7/2003	Mulinia lateralis	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-1	JB305	40.575	-73.87	8/7/2003	Nemertea	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-1	JB305	40.575	-73.87	8/7/2003	Neomysis americana	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-1	JB305	40.575	-73.87	8/7/2003	Nucula proxima	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-1	JB305	40.575	-73.87	8/7/2003	Pagurus longicarpus	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-1	JB305	40.575	-73.87	8/7/2003	Polydora cornuta	1	66	1320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-1	JB305	40.575	-73.87	8/7/2003	Streblospio benedicti	1	53	1060	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-1	JB305	40.575	-73.87	8/7/2003	Tellina agilis	1	21	420	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-1	JB305	40.575	-73.87	8/7/2003	Tharyx acutus	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-1	JB305	40.575	-73.87	8/7/2003	Tubificidae	1	14	280	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-1	JB305	40.575	-73.87	8/7/2003	Unciola serrata	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-2	JB305	40.575	-73.87	8/7/2003	Ampelisca abdita	1	112	2240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-2	JB305	40.575	-73.87	8/7/2003	Cancer irroratus	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-2	JB305	40.575	-73.87	8/7/2003	Crangon septemspinosa	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-2	JB305	40.575	-73.87	8/7/2003	Glycera americana	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-2	JB305	40.575	-73.87	8/7/2003	Ilyanassa trivittata	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-2	JB305	40.575	-73.87	8/7/2003	Mercenaria mercenaria	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-2	JB305	40.575	-73.87	8/7/2003	Neomysis americana	1	64	1280	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-2	JB305	40.575	-73.87	8/7/2003	Nereis	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-2	JB305	40.575	-73.87	8/7/2003	Polydora cornuta	1	100	2000	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-2	JB305	40.575	-73.87	8/7/2003	Streblospio benedicti	1	148	2960	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-2	JB305	40.575	-73.87	8/7/2003	Tellina agilis	1	28	560	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB305	JB305-2	JB305	40.575	-73.87	8/7/2003	Tubificidae	1	44	880	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-1	JB306	40.572	-73.88	8/5/2003	Ampelisca abdita	1	216	4320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-1	JB306	40.572	-73.88	8/5/2003	Corophium tuberculatum	1	52	1040	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-1	JB306	40.572	-73.88	8/5/2003	Crangon septemspinosa	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-1	JB306	40.572	-73.88	8/5/2003	Mediomastus ambiseta	1	28	560	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-1	JB306	40.572	-73.88	8/5/2003	Mercenaria mercenaria	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-1	JB306	40.572	-73.88	8/5/2003	Microdeutopus gryllotalpa	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-1	JB306	40.572	-73.88	8/5/2003	Neomysis americana	1	28	560	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-1	JB306	40.572	-73.88	8/5/2003	Pectinaria gouldi	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-1	JB306	40.572	-73.88	8/5/2003	Polydora cornuta	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-1	JB306	40.572	-73.88	8/5/2003	Streblospio benedicti	1	124	2480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-1	JB306	40.572	-73.88	8/5/2003	Tellina agilis	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-1	JB306	40.572	-73.88	8/5/2003	Tharyx acutus	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-1	JB306	40.572	-73.88	8/5/2003	Tubificidae	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-2	JB306	40.572	-73.88	8/5/2003	Ampelisca abdita	1	316	6320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-2	JB306	40.572	-73.88	8/5/2003	Cirratulidae	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-2	JB306	40.572	-73.88	8/5/2003	Corophium tuberculatum	1	100	2000	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-2	JB306	40.572	-73.88	8/5/2003	Crangon septemspinosa	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-2	JB306	40.572	-73.88	8/5/2003	Dyspanopeus sayi	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-2	JB306	40.572	-73.88	8/5/2003	Elasmopus laevis	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-2	JB306	40.572	-73.88	8/5/2003	Leitoscoloplos robustus	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-2	JB306	40.572	-73.88	8/5/2003	Mediomastus ambiseta	1	28	560	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-2	JB306	40.572	-73.88	8/5/2003	Mercenaria mercenaria	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-2	JB306	40.572	-73.88	8/5/2003	Microdeutopus gryllotalpa	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-2	JB306	40.572	-73.88	8/5/2003	Neomysis americana	1	32	640	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-2	JB306	40.572	-73.88	8/5/2003	Polydora cornuta	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-2	JB306	40.572	-73.88	8/5/2003	Streblospio benedicti	1	92	1840	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-2	JB306	40.572	-73.88	8/5/2003	Tellina agilis	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-2	JB306	40.572	-73.88	8/5/2003	Tharyx acutus	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB306	JB306-2	JB306	40.572	-73.88	8/5/2003	Tubificidae	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-1	JB307	40.64	-73.847	8/11/2003	Ampelisca abdita	1	1896	37920	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-1	JB307	40.64	-73.847	8/11/2003	Ascidiacea	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-1	JB307	40.64	-73.847	8/11/2003	Capitella capitata	1	1120	22400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-1	JB307	40.64	-73.847	8/11/2003	Corophium tuberculatum	1	88	1760	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-1	JB307	40.64	-73.847	8/11/2003	Gammarus mucronatus	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-1	JB307	40.64	-73.847	8/11/2003	Lysianopsis alba	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-1	JB307	40.64	-73.847	8/11/2003	Mediomastus ambiseta	1	38	760	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-1	JB307	40.64	-73.847	8/11/2003	Melita nitida	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-1	JB307	40.64	-73.847	8/11/2003	Mercenaria mercenaria	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-1	JB307	40.64	-73.847	8/11/2003	Mya arenaria	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-1	JB307	40.64	-73.847	8/11/2003	Pectinaria gouldi	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-1	JB307	40.64	-73.847	8/11/2003	Podarke obscura	1	32	640	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-1	JB307	40.64	-73.847	8/11/2003	Polydora cornuta	1	264	5280	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-1	JB307	40.64	-73.847	8/11/2003	Schistomeringos rudolphi	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-1	JB307	40.64	-73.847	8/11/2003	Streblospio benedicti	1	656	13120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-1	JB307	40.64	-73.847	8/11/2003	Tubificidae	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-1	JB307	40.64	-73.847	8/11/2003	Unciola serrata	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Ampelisca abdita	1	4904	98080	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Capitella capitata	1	1448	28960	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Cirratulidae	1	112	2240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Corophium tuberculatum	1	272	5440	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Dyspanopeus sayi	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Eumida sanguinea	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Hesionidae	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Lysianopsis alba	1	96	1920	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Mediomastus ambiseta	1	608	12160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Mercenaria mercenaria	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Mysella planulata	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Nemertea	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Nereis succinea	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Pectinaria gouldi	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Podarke obscura	1	184	3680	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Podarkeopsis levifuscina	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Polydora cornuta	1	1592	31840	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Streblospio benedicti	1	1424	28480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Terebellidae	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Tharyx acutus	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Tubificidae	1	96	1920	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB307	JB307-2	JB307	40.64	-73.847	8/11/2003	Unciola serrata	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-1	JB309	40.643	-73.858	8/5/2003	Actiniaria	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-1	JB309	40.643	-73.858	8/5/2003	Ampelisca abdita	1	2600	52000	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-1	JB309	40.643	-73.858	8/5/2003	Corophium tuberculatum	1	580	11600	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-1	JB309	40.643	-73.858	8/5/2003	Dyspanopeus sayi	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-1	JB309	40.643	-73.858	8/5/2003	Elasmopus laevis	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-1	JB309	40.643	-73.858	8/5/2003	Ilyanassa obsoleta	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-1	JB309	40.643	-73.858	8/5/2003	Lysianopsis alba	1	200	4000	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-1	JB309	40.643	-73.858	8/5/2003	Mediomastus sp	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-1	JB309	40.643	-73.858	8/5/2003	Melita nitida	1	20	400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-1	JB309	40.643	-73.858	8/5/2003	Microdeutopus gryllotalpa	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-1	JB309	40.643	-73.858	8/5/2003	Nereis succinea	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-1	JB309	40.643	-73.858	8/5/2003	Podarke obscura	1	20	400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-1	JB309	40.643	-73.858	8/5/2003	Tharyx acutus	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-1	JB309	40.643	-73.858	8/5/2003	Tubificidae	1	28	560	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-1	JB309	40.643	-73.858	8/5/2003	Turbellaria	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-2	JB309	40.643	-73.858	8/5/2003	Ampelisca abdita	1	8112	162240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-2	JB309	40.643	-73.858	8/5/2003	Capitella capitata	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-2	JB309	40.643	-73.858	8/5/2003	Corophium tuberculatum	1	1472	29440	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-2	JB309	40.643	-73.858	8/5/2003	Crangon septemspinosa	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-2	JB309	40.643	-73.858	8/5/2003	Crepidula fornicata	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-2	JB309	40.643	-73.858	8/5/2003	Cyathura polita	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-2	JB309	40.643	-73.858	8/5/2003	Dyspanopeus sayi	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-2	JB309	40.643	-73.858	8/5/2003	Elasmopus laevis	1	88	1760	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-2	JB309	40.643	-73.858	8/5/2003	Lysianopsis alba	1	800	16000	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-2	JB309	40.643	-73.858	8/5/2003	Mediomastus ambiseta	1	72	1440	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-2	JB309	40.643	-73.858	8/5/2003	Mediomastus sp	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-2	JB309	40.643	-73.858	8/5/2003	Melita nitida	1	160	3200	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-2	JB309	40.643	-73.858	8/5/2003	Mercenaria mercenaria	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-2	JB309	40.643	-73.858	8/5/2003	Microdeutopus gryllotalpa	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-2	JB309	40.643	-73.858	8/5/2003	Mya arenaria	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-2	JB309	40.643	-73.858	8/5/2003	Neomysis americana	1	112	2240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-2	JB309	40.643	-73.858	8/5/2003	Podarke obscura	1	72	1440	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-2	JB309	40.643	-73.858	8/5/2003	Tharyx acutus	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB309	JB309-2	JB309	40.643	-73.858	8/5/2003	Tubificidae	1	56	1120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-1	JB310	40.639	-73.828	8/12/2003	Acteocina canaliculata	1	1	20	0.05

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-1	JB310	40.639	-73.828	8/12/2003	Columbellidae	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-1	JB310	40.639	-73.828	8/12/2003	Crangon septemspinosa	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-1	JB310	40.639	-73.828	8/12/2003	Crepidula fornicata	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-1	JB310	40.639	-73.828	8/12/2003	Dyspanopeus sayi	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-1	JB310	40.639	-73.828	8/12/2003	Hydrozoa	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-1	JB310	40.639	-73.828	8/12/2003	Ilyanassa obsoleta	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-1	JB310	40.639	-73.828	8/12/2003	Leitoscoloplos robustus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-1	JB310	40.639	-73.828	8/12/2003	Odostomia trifida	1	15	300	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-1	JB310	40.639	-73.828	8/12/2003	Pagurus longicarpus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-1	JB310	40.639	-73.828	8/12/2003	Palaemonetes pugio	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-1	JB310	40.639	-73.828	8/12/2003	Polydora cornuta	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-1	JB310	40.639	-73.828	8/12/2003	Streblospio benedicti	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-1	JB310	40.639	-73.828	8/12/2003	Tubificidae	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-2	JB310	40.639	-73.828	8/12/2003	Ampelisca abdita	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-2	JB310	40.639	-73.828	8/12/2003	Crangon septemspinosa	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-2	JB310	40.639	-73.828	8/12/2003	Crepidula fornicata	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-2	JB310	40.639	-73.828	8/12/2003	Dyspanopeus sayi	1	6	120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-2	JB310	40.639	-73.828	8/12/2003	Ilyanassa obsoleta	1	50	1000	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-2	JB310	40.639	-73.828	8/12/2003	Leitoscoloplos robustus	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-2	JB310	40.639	-73.828	8/12/2003	Lysianopsis alba	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-2	JB310	40.639	-73.828	8/12/2003	Mediomastus ambiseta	1	6	120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-2	JB310	40.639	-73.828	8/12/2003	Neomysis americana	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-2	JB310	40.639	-73.828	8/12/2003	Odostomia trifida	1	105	2100	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-2	JB310	40.639	-73.828	8/12/2003	Streblospio benedicti	1	13	260	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-2	JB310	40.639	-73.828	8/12/2003	Tharyx acutus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB310	JB310-2	JB310	40.639	-73.828	8/12/2003	Tubificidae	1	7	140	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB313	JB313-1	JB313	40.61	-73.81	8/11/2003	Ampelisca abdita	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB313	JB313-1	JB313	40.61	-73.81	8/11/2003	Capitella capitata	1	75	1500	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB313	JB313-2	JB313	40.61	-73.81	8/11/2003	Ampelisca abdita	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB313	JB313-2	JB313	40.61	-73.81	8/11/2003	Capitella capitata	1	29	580	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB313	JB313-2	JB313	40.61	-73.81	8/11/2003	Gastropoda	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB313	JB313-2	JB313	40.61	-73.81	8/11/2003	Tharyx acutus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-1	JB315	40.605	-73.786	8/14/2003	Ampelisca abdita	1	10	200	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-1	JB315	40.605	-73.786	8/14/2003	Crepidula fornicata	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-1	JB315	40.605	-73.786	8/14/2003	Dyspanopeus sayi	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-1	JB315	40.605	-73.786	8/14/2003	Gastropoda	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-1	JB315	40.605	-73.786	8/14/2003	Ilyanassa obsoleta	1	30	600	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-1	JB315	40.605	-73.786	8/14/2003	Leitoscoloplos robustus	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-1	JB315	40.605	-73.786	8/14/2003	Mediomastus ambiseta	1	10	200	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-1	JB315	40.605	-73.786	8/14/2003	Odostomia impressa	1	6	120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-1	JB315	40.605	-73.786	8/14/2003	Serpulidae	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-1	JB315	40.605	-73.786	8/14/2003	Streblospio benedicti	1	49	980	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-1	JB315	40.605	-73.786	8/14/2003	Tellina agilis	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-1	JB315	40.605	-73.786	8/14/2003	Tharyx acutus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-1	JB315	40.605	-73.786	8/14/2003	Tubificidae	1	5	100	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-2	JB315	40.605	-73.786	8/14/2003	Ampelisca abdita	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-2	JB315	40.605	-73.786	8/14/2003	Cirratulidae	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-2	JB315	40.605	-73.786	8/14/2003	Corophium tuberculatum	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-2	JB315	40.605	-73.786	8/14/2003	Crepidula fornicata	1	37	740	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-2	JB315	40.605	-73.786	8/14/2003	Hydroides dianthus	1	5	100	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-2	JB315	40.605	-73.786	8/14/2003	Ilyanassa obsoleta	1	108	2160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-2	JB315	40.605	-73.786	8/14/2003	Mediomastus ambiseta	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-2	JB315	40.605	-73.786	8/14/2003	Odostomia impressa	1	36	720	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-2	JB315	40.605	-73.786	8/14/2003	Pagurus longicarpus	1	10	200	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-2	JB315	40.605	-73.786	8/14/2003	Phyllodocidae	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-2	JB315	40.605	-73.786	8/14/2003	Polydora cornuta	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-2	JB315	40.605	-73.786	8/14/2003	Sabellaria vulgaris	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-2	JB315	40.605	-73.786	8/14/2003	Streblospio benedicti	1	141	2820	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-2	JB315	40.605	-73.786	8/14/2003	Tharyx acutus	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-2	JB315	40.605	-73.786	8/14/2003	Tubificidae	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB315	JB315-2	JB315	40.605	-73.786	8/14/2003	Unciola serrata	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Ampelisca abdita	1	1996	39920	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Corophium tuberculatum	1	36	720	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Crangon septemspinosa	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Cyathura polita	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Dyspanopeus sayi	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Elasmopus laevis	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Eumida sanguinea	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Glycera americana	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Harmothoe imbricata	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Ilyanassa obsoleta	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Lysianopsis alba	1	96	1920	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Mediomastus ambiseta	1	92	1840	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Melita nitida	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Neomysis americana	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Odostomia	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Palaemonetes pugio	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Podarke obscura	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Polycirrus sp. g	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Polydora cornuta	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Rhepoxynius hudsoni	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Streblospio benedicti	1	280	5600	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Tellina agilis	1	6	120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Tharyx acutus	1	60	1200	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Tubificidae	1	236	4720	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-1	JB316	40.625	-73.837	8/8/2003	Xanthidae	1	32	640	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-2	JB316	40.625	-73.837	8/8/2003	Ampelisca abdita	1	6	120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-2	JB316	40.625	-73.837	8/8/2003	Aricidea	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-2	JB316	40.625	-73.837	8/8/2003	Capitella capitata	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-2	JB316	40.625	-73.837	8/8/2003	Caulleriella sp. j	1	161	3220	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-2	JB316	40.625	-73.837	8/8/2003	Cirratulidae	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-2	JB316	40.625	-73.837	8/8/2003	Corophium tuberculatum	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-2	JB316	40.625	-73.837	8/8/2003	Crangon septemspinosa	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-2	JB316	40.625	-73.837	8/8/2003	Crepidula fornicata	1	17	340	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-2	JB316	40.625	-73.837	8/8/2003	Elasmopus laevis	1	6	120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-2	JB316	40.625	-73.837	8/8/2003	Gemma gemma	1	21	420	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-2	JB316	40.625	-73.837	8/8/2003	Ilyanassa obsoleta	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-2	JB316	40.625	-73.837	8/8/2003	Pagurus longicarpus	1	15	300	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-2	JB316	40.625	-73.837	8/8/2003	Streblospio benedicti	1	90	1800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-2	JB316	40.625	-73.837	8/8/2003	Tellina agilis	1	26	520	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB316	JB316-2	JB316	40.625	-73.837	8/8/2003	Tubificidae	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Ampelisca abdita	1	52	1040	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Asabellides oculata	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Cancer irroratus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Capitella capitata	1	11	220	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Corophium tuberculatum	1	13	260	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Crangon septemspinosa	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Crepidula fornicata	1	11	220	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Dyspanopeus sayi	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Elasmopus laevis	1	73	1460	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Ensis directus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Eumida sanguinea	1	7	140	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Gastropoda	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Glycera	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Glycera americana	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Harmothoe imbricata	1	5	100	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Heteromastus filiformis	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Heteromysis formosa	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Hydroides dianthus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Ilyanassa obsoleta	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Lysianopsis alba	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Majidae	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Mediomastus ambiseta	1	178	3560	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Mercenaria mercenaria	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Nemertea	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Pagurus longicarpus	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Polycirrus sp. g	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Rhepoxynius hudsoni	1	15	300	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Sabellaria vulgaris	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Streblospio benedicti	1	7	140	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Tellina agilis	1	18	360	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Tubificidae	1	88	1760	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-1	JB317	40.621	-73.812	8/13/2003	Unciola serrata	1	64	1280	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Ampelisca abdita	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Aricidea catherinae	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Autolytus	1	20	400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Capitella capitata	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Caulleriella sp. j	1	32	640	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Cirratulidae	1	28	560	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Corophium tuberculatum	1	44	880	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Crepidula fornicata	1	20	400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Dyspanopeus sayi	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Elasmopus laevis	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Ensis directus	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Eumida sanguinea	1	28	560	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Harmothoe imbricata	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Heteromastus filiformis	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Hydroides dianthus	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Hydrozoa	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Ilyanassa obsoleta	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Lineidae	1	8	160	0.05

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Lysianopsis alba	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Mediomastus ambiseta	1	184	3680	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Mercenaria mercenaria	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Nemertea	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Neomysis americana	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Pagurus longicarpus	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Parasterope pollex	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Polycirrus sp. g	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Rhepoxynius hudsoni	1	52	1040	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Sabellaria vulgaris	1	476	9520	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Sabellidae	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Serpulidae	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Streblospio benedicti	1	100	2000	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Tellina agilis	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Tharyx acutus	1	60	1200	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Tubificidae	1	36	720	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Tubulanus	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB317	JB317-2	JB317	40.621	-73.812	8/13/2003	Unciola serrata	1	92	1840	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB319	JB319-1	JB319	40.633	-73.807	8/5/2003	Acanthohaustorius millsi	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB319	JB319-1	JB319	40.633	-73.807	8/5/2003	Leitoscoloplos	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB319	JB319-1	JB319	40.633	-73.807	8/5/2003	Magelona papillicornis	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB319	JB319-1	JB319	40.633	-73.807	8/5/2003	Nephtys picta	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB319	JB319-1	JB319	40.633	-73.807	8/5/2003	Rhepoxynius hudsoni	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB319	JB319-1	JB319	40.633	-73.807	8/5/2003	Tellina agilis	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB319	JB319-2	JB319	40.633	-73.807	8/5/2003	Ampelisca abdita	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB319	JB319-2	JB319	40.633	-73.807	8/5/2003	Corophium tuberculatum	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB319	JB319-2	JB319	40.633	-73.807	8/5/2003	Crepidula fornicata	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB319	JB319-2	JB319	40.633	-73.807	8/5/2003	Neomysis americana	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB319	JB319-2	JB319	40.633	-73.807	8/5/2003	Nephtys picta	1	11	220	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB319	JB319-2	JB319	40.633	-73.807	8/5/2003	Odostomia impressa	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB319	JB319-2	JB319	40.633	-73.807	8/5/2003	Pagurus longicarpus	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB319	JB319-2	JB319	40.633	-73.807	8/5/2003	Protohaustorius wigleyi	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB319	JB319-2	JB319	40.633	-73.807	8/5/2003	Rhepoxynius hudsoni	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB319	JB319-2	JB319	40.633	-73.807	8/5/2003	Tellina agilis	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB319	JB319-2	JB319	40.633	-73.807	8/5/2003	Unciola serrata	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Ampelisca abdita	1	6	120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Capitella capitata	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Caulleriella sp. j	1	14	280	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Cirratulidae	1	184	3680	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Corophium tuberculatum	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Crepidula fornicata	1	14	280	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Dyspanopeus sayi	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Elasmopus laevis	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Eumida sanguinea	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Gemma gemma	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Ilyanassa obsoleta	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Leitoscoloplos robustus	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Majidae	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Mediomastus ambiseta	1	22	440	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Microdeutopus gryllotalpa	1	6	120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Pagurus longicarpus	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Polycirrus	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Polycirrus sp. g	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Rhepoxynius hudsoni	1	6	120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Streblospio benedicti	1	378	7560	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Tellina agilis	1	28	560	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Tharyx acutus	1	104	2080	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Tubificidae	1	20	400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Tubulanus	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-1	JB322	40.627	-73.871	8/7/2003	Unciola serrata	1	34	680	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Aeginellidae	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Ampelisca abdita	1	455	9100	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Capitella capitata	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Cirratulidae	1	46	920	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Corophium tuberculatum	1	30	600	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Crangon septemspinosa	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Crepidula fornicata	1	27	540	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Demonax microphthalmus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Doridella obscura	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Dyspanopeus sayi	1	13	260	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Elasmopus laevis	1	132	2640	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Eumida sanguinea	1	7	140	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Exogone rolani	1	7	140	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Gemma gemma	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Harmothoe imbricata	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Heteromysis formosa	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Hydroides dianthus	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Ilyanassa obsoleta	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Leitoscoloplos	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Lysianopsis alba	1	62	1240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Mediomastus ambiseta	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Mercenaria mercenaria	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Microdeutopus gryllotalpa	1	89	1780	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Nephtys picta	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Pagurus longicarpus	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Paranaitis speciosa	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Polycirrus sp. g	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Polydora socialis	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Polygordius	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Rhepoxynius hudsoni	1	49	980	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Sabellaria vulgaris	1	46	920	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Streblospio benedicti	1	192	3840	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Tellina agilis	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Tharyx acutus	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Tubificidae	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB322	JB322-2	JB322	40.627	-73.871	8/7/2003	Unciola serrata	1	29	580	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Ampelisca abdita	1	2963	59260	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Cancer irroratus	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Corophium tuberculatum	1	568	11360	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Crangon septemspinosa	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Elasmopus laevis	1	120	2400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Gastropoda	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Ilyanassa obsoleta	1	64	1280	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Lysianopsis alba	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Mediomastus sp	1	120	2400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Microdeutopus gryllotalpa	1	408	8160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Mysella planulata	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Nemertea	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Neomysis americana	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Nereis succinea	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Nucula proxima	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Ovalipes ocellatus	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Paranaitis speciosa	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Polydora cornuta	1	32	640	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Rhepoxynius hudsoni	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Streblospio benedicti	1	488	9760	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Tellina agilis	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Tharyx acutus	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-1	JB323	40.633	-73.873	8/6/2003	Tubificidae	1	88	1760	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Ampelisca abdita	1	11680	233600	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Cirratulidae	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Corophium tuberculatum	1	736	14720	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Crangon septemspinosa	1	32	640	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Crepidula fornicata	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Dyspanopeus sayi	1	32	640	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Elasmopus laevis	1	304	6080	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Eumida sanguinea	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Glycera americana	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Ilyanassa obsoleta	1	208	4160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Leitoscoloplos robustus	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Lysianopsis alba	1	64	1280	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Mediomastus sp	1	80	1600	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Microdeutopus gryllotalpa	1	488	9760	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Mysella planulata	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Nemertea	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Neomysis americana	1	28	560	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Nereis succinea	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Nucula proxima	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Pagurus longicarpus	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Streblospio benedicti	1	480	9600	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Tellina agilis	1	72	1440	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Tharyx acutus	1	32	640	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB323	JB323-2	JB323	40.633	-73.873	8/6/2003	Tubificidae	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-1	JB354	40.602	-73.877	8/6/2003	Ampelisca abdita	1	20	400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-1	JB354	40.602	-73.877	8/6/2003	Corophium tuberculatum	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-1	JB354	40.602	-73.877	8/6/2003	Crangon septemspinosa	1	72	1440	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-1	JB354	40.602	-73.877	8/6/2003	Gemma gemma	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-1	JB354	40.602	-73.877	8/6/2003	Ilyanassa obsoleta	1	88	1760	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-1	JB354	40.602	-73.877	8/6/2003	Neomysis americana	1	44	880	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-1	JB354	40.602	-73.877	8/6/2003	Nucula proxima	1	28	560	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-1	JB354	40.602	-73.877	8/6/2003	Tellina agilis	1	4	80	0.05

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-1	JB354	40.602	-73.877	8/6/2003	Tubificidae	1	20	400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-2	JB354	40.602	-73.877	8/6/2003	Ampelisca abdita	1	15	300	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-2	JB354	40.602	-73.877	8/6/2003	Crangon septemspinosa	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-2	JB354	40.602	-73.877	8/6/2003	Exogone rolani	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-2	JB354	40.602	-73.877	8/6/2003	Ilyanassa obsoleta	1	15	300	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-2	JB354	40.602	-73.877	8/6/2003	Leitoscoloplos robustus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-2	JB354	40.602	-73.877	8/6/2003	Mediomastus ambiseta	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-2	JB354	40.602	-73.877	8/6/2003	Mercenaria mercenaria	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-2	JB354	40.602	-73.877	8/6/2003	Neomysis americana	1	34	680	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-2	JB354	40.602	-73.877	8/6/2003	Nucula proxima	1	5	100	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-2	JB354	40.602	-73.877	8/6/2003	Odostomia impressa	1	11	220	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-2	JB354	40.602	-73.877	8/6/2003	Streblospio benedicti	1	11	220	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-2	JB354	40.602	-73.877	8/6/2003	Tellina agilis	1	5	100	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-2	JB354	40.602	-73.877	8/6/2003	Tubificidae	1	10	200	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB354	JB354-2	JB354	40.602	-73.877	8/6/2003	Unciola serrata	1	7	140	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB358	JB358-1	JB358	40.608	-73.89	8/7/2003	Crangon septemspinosa	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB358	JB358-1	JB358	40.608	-73.89	8/7/2003	Nephtys picta	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB358	JB358-1	JB358	40.608	-73.89	8/7/2003	Ovalipes ocellatus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB358	JB358-2	JB358	40.608	-73.89	8/7/2003	Ampelisca abdita	1	19	380	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB358	JB358-2	JB358	40.608	-73.89	8/7/2003	Asabellides oculata	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB358	JB358-2	JB358	40.608	-73.89	8/7/2003	Cancer irroratus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB358	JB358-2	JB358	40.608	-73.89	8/7/2003	Corophium tuberculatum	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB358	JB358-2	JB358	40.608	-73.89	8/7/2003	Crangon septemspinosa	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB358	JB358-2	JB358	40.608	-73.89	8/7/2003	Crepidula fornicata	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB358	JB358-2	JB358	40.608	-73.89	8/7/2003	Elasmopus laevis	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB358	JB358-2	JB358	40.608	-73.89	8/7/2003	Ilyanassa obsoleta	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB358	JB358-2	JB358	40.608	-73.89	8/7/2003	Majidae	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB358	JB358-2	JB358	40.608	-73.89	8/7/2003	Mysidae	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB358	JB358-2	JB358	40.608	-73.89	8/7/2003	Pagurus longicarpus	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB358	JB358-2	JB358	40.608	-73.89	8/7/2003	Streblospio benedicti	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB358	JB358-2	JB358	40.608	-73.89	8/7/2003	Tellina agilis	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB358	JB358-2	JB358	40.608	-73.89	8/7/2003	Tubificidae	1	5	100	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB358	JB358-2	JB358	40.608	-73.89	8/7/2003	Unciola serrata	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-1	JB359	40.612	-73.872	8/7/2003	Ampelisca abdita	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-1	JB359	40.612	-73.872	8/7/2003	Capitella capitata	1	6	120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-1	JB359	40.612	-73.872	8/7/2003	Caulleriella sp. j	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-1	JB359	40.612	-73.872	8/7/2003	Cirratulidae	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-1	JB359	40.612	-73.872	8/7/2003	Crangon septemspinosa	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-1	JB359	40.612	-73.872	8/7/2003	Crepidula fornicata	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-1	JB359	40.612	-73.872	8/7/2003	Dyspanopeus sayi	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-1	JB359	40.612	-73.872	8/7/2003	Gemma gemma	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-1	JB359	40.612	-73.872	8/7/2003	Ilyanassa obsoleta	1	18	360	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-1	JB359	40.612	-73.872	8/7/2003	Leitoscoloplos	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-1	JB359	40.612	-73.872	8/7/2003	Leitoscoloplos robustus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-1	JB359	40.612	-73.872	8/7/2003	Mediomastus ambiseta	1	21	420	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-1	JB359	40.612	-73.872	8/7/2003	Nereis	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-1	JB359	40.612	-73.872	8/7/2003	Pagurus longicarpus	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-1	JB359	40.612	-73.872	8/7/2003	Streblospio benedicti	1	116	2320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-1	JB359	40.612	-73.872	8/7/2003	Tellina agilis	1	7	140	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-1	JB359	40.612	-73.872	8/7/2003	Tharyx acutus	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-1	JB359	40.612	-73.872	8/7/2003	Tubificidae	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-1	JB359	40.612	-73.872	8/7/2003	Unciola serrata	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Ampelisca abdita	1	26	520	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Calyptraeidae	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Capitella capitata	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Caulleriella sp. j	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Cirratulidae	1	9	180	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Corophium tuberculatum	1	10	200	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Crangon septemspinosa	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Crepidula fornicata	1	68	1360	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Crepidula plana	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Dyspanopeus sayi	1	10	200	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Elasmopus laevis	1	9	180	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Eumida sanguinea	1	5	100	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Gemma gemma	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Ilyanassa obsoleta	1	33	660	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Leitoscoloplos robustus	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Lysianopsis alba	1	43	860	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Mediomastus ambiseta	1	35	700	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Nereis	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Nereis acuminata	1	5	100	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Odostomia	1	5	100	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Pagurus longicarpus	1	15	300	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Polycirrus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Polycirrus sp. g	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Polydora cornuta	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Rhepoxynius hudsoni	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Sabellaria vulgaris	1	11	220	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Spio filicornis	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Streblospio benedicti	1	121	2420	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Tellina agilis	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Tharyx acutus	1	14	280	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Tubificidae	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB359	JB359-2	JB359	40.612	-73.872	8/7/2003	Unciola serrata	1	37	740	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-1	JB361	40.584	-73.853	8/8/2003	Ampelisca abdita	1	20	400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-1	JB361	40.584	-73.853	8/8/2003	Capitella capitata	1	134	2680	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-1	JB361	40.584	-73.853	8/8/2003	Cirratulidae	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-1	JB361	40.584	-73.853	8/8/2003	Corophium tuberculatum	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-1	JB361	40.584	-73.853	8/8/2003	Gastropoda	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-1	JB361	40.584	-73.853	8/8/2003	Ilyanassa obsoleta	1	62	1240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-1	JB361	40.584	-73.853	8/8/2003	Nereis	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-1	JB361	40.584	-73.853	8/8/2003	Nereis succinea	1	18	360	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-1	JB361	40.584	-73.853	8/8/2003	Podarke obscura	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-1	JB361	40.584	-73.853	8/8/2003	Polydora cornuta	1	6	120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-1	JB361	40.584	-73.853	8/8/2003	Streblospio benedicti	1	224	4480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-1	JB361	40.584	-73.853	8/8/2003	Tharyx acutus	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-2	JB361	40.584	-73.853	8/8/2003	Ampelisca abdita	1	42	840	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-2	JB361	40.584	-73.853	8/8/2003	Calyptraeidae	1	6	120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-2	JB361	40.584	-73.853	8/8/2003	Cirratulidae	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-2	JB361	40.584	-73.853	8/8/2003	Glycera americana	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-2	JB361	40.584	-73.853	8/8/2003	Ilyanassa obsoleta	1	164	3280	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-2	JB361	40.584	-73.853	8/8/2003	Nereididae	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-2	JB361	40.584	-73.853	8/8/2003	Nereis succinea	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-2	JB361	40.584	-73.853	8/8/2003	Odostomia impressa	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-2	JB361	40.584	-73.853	8/8/2003	Pectinaria gouldi	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-2	JB361	40.584	-73.853	8/8/2003	Polydora cornuta	1	588	11760	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-2	JB361	40.584	-73.853	8/8/2003	Streblospio benedicti	1	678	13560	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB361	JB361-2	JB361	40.584	-73.853	8/8/2003	Tharyx acutus	1	62	1240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-1	JB364	40.593	-73.871	8/11/2003	Ampelisca abdita	1	3840	76800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-1	JB364	40.593	-73.871	8/11/2003	Capitella capitata	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-1	JB364	40.593	-73.871	8/11/2003	Cirratulidae	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-1	JB364	40.593	-73.871	8/11/2003	Corophium tuberculatum	1	144	2880	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-1	JB364	40.593	-73.871	8/11/2003	Dyspanopeus sayi	1	48	960	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-1	JB364	40.593	-73.871	8/11/2003	Lysianopsis alba	1	216	4320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-1	JB364	40.593	-73.871	8/11/2003	Mediomastus ambiseta	1	64	1280	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-1	JB364	40.593	-73.871	8/11/2003	Neomysis americana	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-1	JB364	40.593	-73.871	8/11/2003	Podarke obscura	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-1	JB364	40.593	-73.871	8/11/2003	Schistomeringos rudolphi	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-1	JB364	40.593	-73.871	8/11/2003	Tellina agilis	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-1	JB364	40.593	-73.871	8/11/2003	Tharyx acutus	1	323	6460	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-1	JB364	40.593	-73.871	8/11/2003	Tubificidae	1	32	640	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-2	JB364	40.593	-73.871	8/11/2003	Ampelisca abdita	1	1132	22640	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-2	JB364	40.593	-73.871	8/11/2003	Capitella capitata	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-2	JB364	40.593	-73.871	8/11/2003	Cirratulidae	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-2	JB364	40.593	-73.871	8/11/2003	Corophium tuberculatum	1	81	1620	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-2	JB364	40.593	-73.871	8/11/2003	Cyathura polita	1	5	100	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-2	JB364	40.593	-73.871	8/11/2003	Dyspanopeus sayi	1	13	260	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-2	JB364	40.593	-73.871	8/11/2003	Elasmopus laevis	1	7	140	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-2	JB364	40.593	-73.871	8/11/2003	Ilyanassa obsoleta	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-2	JB364	40.593	-73.871	8/11/2003	Lysianopsis alba	1	58	1160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-2	JB364	40.593	-73.871	8/11/2003	Mediomastus ambiseta	1	31	620	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-2	JB364	40.593	-73.871	8/11/2003	Melita nitida	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-2	JB364	40.593	-73.871	8/11/2003	Mercenaria mercenaria	1	5	100	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-2	JB364	40.593	-73.871	8/11/2003	Nereis succinea	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-2	JB364	40.593	-73.871	8/11/2003	Palaemonetes pugio	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-2	JB364	40.593	-73.871	8/11/2003	Palaemonidae	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-2	JB364	40.593	-73.871	8/11/2003	Podarke obscura	1	13	260	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-2	JB364	40.593	-73.871	8/11/2003	Polydora cornuta	1	6	120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-2	JB364	40.593	-73.871	8/11/2003	Tellina agilis	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-2	JB364	40.593	-73.871	8/11/2003	Tharyx acutus	1	20	400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB364	JB364-2	JB364	40.593	-73.871	8/11/2003	Tubificidae	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Ampelisca abdita	1	1812	36240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Arabella nultidentata	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Cirratulidae	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Corophium tuberculatum	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Dyspanopeus sayi	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Elasmopus laevis	1	108	2160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Eupolymnia nebulosa	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Exogone rolani	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Glycera americana	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Heteromastus filiformis	1	4	80	0.05

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Ilyanassa obsoleta	1	68	1360	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Lysianopsis alba	1	84	1680	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Mediomastus ambiseta	1	20	400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Mercenaria mercenaria	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Microdeutopus gryllotalpa	1	76	1520	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Odostomia impressa	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Podarke obscura	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Rhepoxynius hudsoni	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Streblospio benedicti	1	28	560	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Tharyx acutus	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-1	JB366	40.589	-73.859	8/13/2003	Tubificidae	1	76	1520	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Ampelisca abdita	1	1740	34800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Arabella	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Capitella capitata	1	28	560	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Corophium tuberculatum	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Dyspanopeus sayi	1	32	640	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Elasmopus laevis	1	92	1840	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Ensis directus	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Eupleura caudata	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Exogone rolani	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Glycera americana	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Hesionidae	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Lysianopsis alba	1	144	2880	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Mediomastus ambiseta	1	80	1600	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Mercenaria mercenaria	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Microdeutopus gryllotalpa	1	88	1760	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Parasterope pollex	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Podarke obscura	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Rhepoxynius hudsoni	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Streblospio benedicti	1	96	1920	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Tharyx acutus	1	32	640	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB366	JB366-2	JB366	40.589	-73.859	8/13/2003	Tubificidae	1	56	1120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Ampelisca abdita	1	1930	38600	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Corophium tuberculatum	1	32	640	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Crangon septemspinosa	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Dyspanopeus sayi	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Elasmopus laevis	1	94	1880	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Ericthonius brasiliensis	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Eteone fauchaldi	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Exogone rolani	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Ilyanassa obsoleta	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Lysianopsis alba	1	126	2520	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Mediomastus ambiseta	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Melita nitida	1	6	120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Mercenaria mercenaria	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Microdeutopus gryllotalpa	1	145	2900	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Mysidae	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Nereis succinea	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Palaemonetes pugio	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Parasterope pollex	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Polycirrus	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Polydora cornuta	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Streblospio benedicti	1	632	12640	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Tharyx acutus	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-1	JB367	40.588	-73.835	8/12/2003	Tubificidae	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-2	JB367	40.588	-73.835	8/12/2003	Ampelisca abdita	1	6848	136960	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-2	JB367	40.588	-73.835	8/12/2003	Cirratulidae	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-2	JB367	40.588	-73.835	8/12/2003	Corophium tuberculatum	1	184	3680	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-2	JB367	40.588	-73.835	8/12/2003	Dyspanopeus sayi	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-2	JB367	40.588	-73.835	8/12/2003	Elasmopus laevis	1	256	5120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-2	JB367	40.588	-73.835	8/12/2003	Eteone fauchaldi	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-2	JB367	40.588	-73.835	8/12/2003	Eumida sanguinea	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-2	JB367	40.588	-73.835	8/12/2003	Exogone rolani	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-2	JB367	40.588	-73.835	8/12/2003	Ilyanassa obsoleta	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-2	JB367	40.588	-73.835	8/12/2003	Lysianopsis alba	1	352	7040	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-2	JB367	40.588	-73.835	8/12/2003	Mediomastus ambiseta	1	144	2880	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-2	JB367	40.588	-73.835	8/12/2003	Microdeutopus gryllotalpa	1	848	16960	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-2	JB367	40.588	-73.835	8/12/2003	Phyllodocidae	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-2	JB367	40.588	-73.835	8/12/2003	Podarke obscura	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-2	JB367	40.588	-73.835	8/12/2003	Streblospio benedicti	1	1240	24800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-2	JB367	40.588	-73.835	8/12/2003	Tharyx acutus	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB367	JB367-2	JB367	40.588	-73.835	8/12/2003	Tubificidae	1	32	640	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Ampelisca abdita	1	4784	95680	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Calyptraeidae	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Cancer irroratus	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Capitella capitata	1	272	5440	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Corophium tuberculatum	1	88	1760	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Crepidula fornicata	1	2008	40160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Crepidula plana	1	56	1120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Dyspanopeus sayi	1	168	3360	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Elasmopus laevis	1	64	1280	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Eupleura caudata	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Harmothoe imbricata	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Heteromysis formosa	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Ilyanassa obsoleta	1	72	1440	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Lepidonotus sublevis	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Lysianopsis alba	1	112	2240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Mediomastus ambiseta	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Microdeutopus gryllotalpa	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Nereis succinea	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Parasterope pollex	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Podarke obscura	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Polydora cornuta	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Rhepoxynius hudsoni	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Streblospio benedicti	1	64	1280	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-1	JB368	40.592	-73.846	8/12/2003	Tellina agilis	1	48	960	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-2	JB368	40.592	-73.846	8/12/2003	Ampelisca abdita	1	416	8320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-2	JB368	40.592	-73.846	8/12/2003	Capitella capitata	1	28	560	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-2	JB368	40.592	-73.846	8/12/2003	Corophium tuberculatum	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-2	JB368	40.592	-73.846	8/12/2003	Crepidula fornicata	1	696	13920	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-2	JB368	40.592	-73.846	8/12/2003	Crepidula plana	1	128	2560	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-2	JB368	40.592	-73.846	8/12/2003	Dyspanopeus sayi	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-2	JB368	40.592	-73.846	8/12/2003	Elasmopus laevis	1	28	560	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-2	JB368	40.592	-73.846	8/12/2003	Eupleura caudata	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-2	JB368	40.592	-73.846	8/12/2003	Glycera americana	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-2	JB368	40.592	-73.846	8/12/2003	Ilyanassa obsoleta	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-2	JB368	40.592	-73.846	8/12/2003	Lysianopsis alba	1	56	1120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-2	JB368	40.592	-73.846	8/12/2003	Mediomastus ambiseta	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-2	JB368	40.592	-73.846	8/12/2003	Mercenaria mercenaria	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-2	JB368	40.592	-73.846	8/12/2003	Pectinaria gouldi	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-2	JB368	40.592	-73.846	8/12/2003	Polydora cornuta	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-2	JB368	40.592	-73.846	8/12/2003	Rhepoxynius hudsoni	1	20	400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-2	JB368	40.592	-73.846	8/12/2003	Sabellaria vulgaris	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-2	JB368	40.592	-73.846	8/12/2003	Tellina agilis	1	20	400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB368	JB368-2	JB368	40.592	-73.846	8/12/2003	Unciola serrata	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Ampelisca abdita	1	5328	106560	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Cirratulidae	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Corophium tuberculatum	1	272	5440	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Crangon septemspinosa	1	48	960	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Cyathura polita	1	32	640	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Dyspanopeus sayi	1	112	2240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Elasmopus laevis	1	112	2240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Hesionidae	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Heteromastus filiformis	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Ilyanassa obsoleta	1	144	2880	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Lysianopsis alba	1	1048	20960	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Mediomastus ambiseta	1	216	4320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Mercenaria mercenaria	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Nemertea	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Nereididae	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Nereis succinea	1	72	1440	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Odostomia	1	32	640	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Podarke obscura	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Polycirrus sp. g	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Polydora cornuta	1	256	5120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Streblospio benedicti	1	744	14880	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Tellina agilis	1	112	2240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Tharyx acutus	1	32	640	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-1	JB371	40.595	-73.805	8/14/2003	Tubificidae	1	88	1760	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Ampelisca abdita	1	3872	77440	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Cirratulidae	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Corophium tuberculatum	1	208	4160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Crangon septemspinosa	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Crepidula fornicata	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Dyspanopeus sayi	1	104	2080	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Elasmopus laevis	1	72	1440	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Eumida sanguinea	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Ilyanassa obsoleta	1	120	2400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Lysianopsis alba	1	256	5120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Mediomastus ambiseta	1	288	5760	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Melita nitida	1	24	480	0.05

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Mercenaria mercenaria	1	40	800	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Mya arenaria	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Nemertea	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Nereididae	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Nereis succinea	1	32	640	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Odostomia	1	144	2880	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Polydora cornuta	1	296	5920	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Streblospio benedicti	1	1064	21280	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Tellina agilis	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Tharyx acutus	1	72	1440	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB371	JB371-2	JB371	40.595	-73.805	8/14/2003	Tubificidae	1	152	3040	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB372	JB372-1	JB372	40.596	-73.812	8/14/2003	Ampelisca abdita	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB374	JB374-1	JB374	40.624	-73.76	9/8/2003	Limulus polyphemus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB374	JB374-1	JB374	40.624	-73.76	9/8/2003	Streblospio benedicti	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB374	JB374-2	JB374	40.624	-73.76	9/8/2003	Limulus polyphemus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB374	JB374-2	JB374	40.624	-73.76	9/8/2003	Streblospio benedicti	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Ampelisca abdita	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Autolytus	1	16	320	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Capitella capitata	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Caulleriella sp. j	1	20	400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Cirratulidae	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Crepidula fornicata	1	108	2160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Crepidula plana	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Dyspanopeus sayi	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Elasmopus laevis	1	20	400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Eumida sanguinea	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Harmothoe imbricata	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Heteromastus filiformis	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Lysianopsis alba	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Mediomastus ambiseta	1	24	480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Mercenaria mercenaria	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Nereis succinea	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Pectinaria gouldi	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Phyllodocidae	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Sabellaria vulgaris	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Sabellidae	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Serpulidae	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Streblospio benedicti	1	68	1360	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Tellina agilis	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Tharyx acutus	1	20	400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Tubificidae	1	524	10480	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-1	JB380	40.629	-73.854	9/9/2003	Unciola serrata	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Aricidea	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Autolytus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Brania wellfleetensis	1	8	160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Capitellidae	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Caulleriella sp. j	1	364	7280	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Cirratulidae	1	129	2580	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Crepidula fornicata	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Doridella obscura	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Gemma gemma	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Glycera dibranchiata	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Hydroides dianthus	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Lysianopsis alba	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Nephtys picta	1	5	100	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Nereis acuminata	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Phyllodocidae	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Polycirrus sp. g	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Rhepoxynius hudsoni	1	5	100	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Sabellaria vulgaris	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Streblospio benedicti	1	321	6420	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Tellina agilis	1	12	240	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Tharyx acutus	1	70	1400	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB380	JB380-2	JB380	40.629	-73.854	9/9/2003	Tubificidae	1	58	1160	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB381	JB381-1	JB381	40.601	-73.774	9/15/2003	Ampelisca abdita	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB381	JB381-1	JB381	40.601	-73.774	9/15/2003	Ilyanassa obsoleta	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB381	JB381-1	JB381	40.601	-73.774	9/15/2003	Neomysis americana	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB381	JB381-1	JB381	40.601	-73.774	9/15/2003	Nephtys picta	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB381	JB381-2	JB381	40.601	-73.774	9/15/2003	Ilyanassa obsoleta	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB381	JB381-2	JB381	40.601	-73.774	9/15/2003	Nephtys picta	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB381	JB381-2	JB381	40.601	-73.774	9/15/2003	Tellina agilis	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB386	JB386-1	JB386	40.604	-73.864	9/9/2003	Crangon septemspinosa	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB386	JB386-1	JB386	40.604	-73.864	9/9/2003	Mercenaria mercenaria	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB386	JB386-1	JB386	40.604	-73.864	9/9/2003	Nephtys picta	1	7	140	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB386	JB386-1	JB386	40.604	-73.864	9/9/2003	Pagurus longicarpus	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB386	JB386-1	JB386	40.604	-73.864	9/9/2003	Rhepoxynius hudsoni	1	4	80	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB386	JB386-1	JB386	40.604	-73.864	9/9/2003	Sabellaria vulgaris	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB386	JB386-1	JB386	40.604	-73.864	9/9/2003	Spiophanes bombyx	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB386	JB386-1	JB386	40.604	-73.864	9/9/2003	Tellina agilis	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB386	JB386-1	JB386	40.604	-73.864	9/9/2003	Travisia carnea	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB386	JB386-1	JB386	40.604	-73.864	9/9/2003	Tubificidae	1	3	60	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB386	JB386-2	JB386	40.604	-73.864	9/9/2003	Crangon septemspinosa	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB386	JB386-2	JB386	40.604	-73.864	9/9/2003	Nemertea	1	2	40	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB386	JB386-2	JB386	40.604	-73.864	9/9/2003	Nephtys picta	1	6	120	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB386	JB386-2	JB386	40.604	-73.864	9/9/2003	Rhepoxynius hudsoni	1	7	140	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB386	JB386-2	JB386	40.604	-73.864	9/9/2003	Spisula solidissima	1	1	20	0.05
REMAP-- USEPA/NJDEP	Estuarine	Jamaica Bay	JB386	JB386-2	JB386	40.604	-73.864	9/9/2003	Tellina agilis	1	1	20	0.05
National Coastal Assessme	Estuarine	Jamaica Bay	NY00-0029	-	2300_M0_NY-0029-A	40.5733	-73.8834	8/1/2000	Mytilus edulis	1	28	280	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY00-0029	-	2300_M0_NY-0029-A	40.5733	-73.8834	8/1/2000	Polygordius	1	9	90	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY00-0029	-	2300_M0_NY-0029-A	40.5733	-73.8834	8/1/2000	Nephtys picta	1	5	50	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY00-0029	-	2300_M0_NY-0029-A	40.5733	-73.8834	8/1/2000	Tellina agilis	1	4	40	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY00-0029	-	2300_M0_NY-0029-A	40.5733	-73.8834	8/1/2000	Nereis acuminata	1	3	30	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY00-0029	-	2300_M0_NY-0029-A	40.5733	-73.8834	8/1/2000	Phoxocephalidae	1	3	30	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY00-0029	-	2300_M0_NY-0029-A	40.5733	-73.8834	8/1/2000	Caulleriella sp. J	1	2	20	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY00-0029	-	2300_M0_NY-0029-A	40.5733	-73.8834	8/1/2000	Microphthalmus hartmanae	1	2	20	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY00-0029	-	2300_M0_NY-0029-A	40.5733	-73.8834	8/1/2000	Rhepoxynius hudsoni	1	2	20	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY00-0029	-	2300_M0_NY-0029-A	40.5733	-73.8834	8/1/2000	Cirratulidae	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY00-0029	-	2300_M0_NY-0029-A	40.5733	-73.8834	8/1/2000	Eobrolgus spinosus	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY00-0029	-	2300_M0_NY-0029-A	40.5733	-73.8834	8/1/2000	Melita nitida	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY00-0029	-	2300_M0_NY-0029-A	40.5733	-73.8834	8/1/2000	Podarke obscura	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY00-0029	-	2300_M0_NY-0029-A	40.5733	-73.8834	8/1/2000	Schistomeringos rudolphi	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY00-0029	-	2300_M0_NY-0029-A	40.5733	-73.8834	8/1/2000	Tharyx acutus	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY00-0029	-	2300_M0_NY-0029-A	40.5733	-73.8834	8/1/2000	Tubificidae	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY00-0029	-	2300_M0_NY-0029-A	40.5733	-73.8834	8/1/2000	Unciola serrata	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Streblospio benedicti	1	681	6810	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Sabellaria vulgaris	1	476	4760	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Rhepoxynius hudsoni	1	185	1850	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Caulleriella sp. J	1	177	1770	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Polycirrus sp. G	1	45	450	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Unciola serrata	1	43	430	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Serpulidae	1	38	380	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Polydora cornuta	1	33	330	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Psammonyx nobilis	1	28	280	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Hydroides dianthus	1	23	230	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Eumida sanguinea	1	15	150	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Nereis acuminata	1	15	150	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Polycirrus	1	14	140	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Exogone rolani	1	11	110	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Panopeus herbstii	1	11	110	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Autolytus	1	10	100	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Crepidula fornicata	1	10	100	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Cirratulidae	1	7	70	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Sabellidae	1	6	60	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Hesionidae	1	4	40	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Pagurus longicarpus	1	4	40	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Tharyx acutus	1	4	40	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Ilyanassa obsoleta	1	3	30	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Monocorophium tuberculatum	1	3	30	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Podarke obscura	1	3	30	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Syllidae	1	3	30	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Tubificidae	1	3	30	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Capitella capitata	1	2	20	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Demonax microphthalmus	1	2	20	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Melita nitida	1	2	20	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Nereidae	1	2	20	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Nereis	1	2	20	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Tubulanus	1	2	20	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Xanthidae	1	2	20	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Ampelisca vadorum	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Aricidea catherinae	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Bivalvia	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Cancer irroratus	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Diopatra cuprea	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Elasmopus levis	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Erichthonius brasiliensis	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Ilyanassa trivittata	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Nephtys picta	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Nereis succinea	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Phyllodocidae	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Rhynchocoela	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Tellina agilis	1	1	10	0.1

Complete list of taxa and abundance data from the Jamaica Bay dataset (REMAP, NCA)

Organization name	Habitat	Reference dataset	Station ID	Replicate ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
National Coastal Assessme	Estuarine	Jamaica Bay	NY01-0032	-	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	Turbellaria	1	1	10	0.1
National Coastal Assessme	Estuarine	Jamaica Bay	NY02-0029	-	2300_M2_NY-0029-A	40.5734	-73.8811	8/14/2002	Rhepoxynius hudsoni	1	18	450	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY02-0029	-	2300_M2_NY-0029-A	40.5734	-73.8811	8/14/2002	Nephtys picta	1	3	75	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY02-0029	-	2300_M2_NY-0029-A	40.5734	-73.8811	8/14/2002	Nephtys	1	2	50	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY02-0029	-	2300_M2_NY-0029-A	40.5734	-73.8811	8/14/2002	Ampelisca vadorum	1	1	25	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY02-0029	-	2300_M2_NY-0029-A	40.5734	-73.8811	8/14/2002	Crepidula fornicata	1	1	25	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY02-0029	-	2300_M2_NY-0029-A	40.5734	-73.8811	8/14/2002	Leitoscoloplos robustus	1	1	25	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY02-0029	-	2300_M2_NY-0029-A	40.5734	-73.8811	8/14/2002	Tellina agilis	1	1	25	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY02-0235	-	2300_M2_NY-0235-A	40.6453	-73.82	8/14/2002	Streblospio benedicti	1	28	700	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY02-0235	-	2300_M2_NY-0235-A	40.6453	-73.82	8/14/2002	Ampelisca vadorum	1	20	500	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY02-0235	-	2300_M2_NY-0235-A	40.6453	-73.82	8/14/2002	Podarke obscura	1	3	75	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY02-0235	-	2300_M2_NY-0235-A	40.6453	-73.82	8/14/2002	Capitella capitata	1	1	25	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY02-0235	-	2300_M2_NY-0235-A	40.6453	-73.82	8/14/2002	Podarkeopsis levifuscina	1	1	25	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY02-0235	-	2300_M2_NY-0235-A	40.6453	-73.82	8/14/2002	Polydora cornuta	1	1	25	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY02-0235	-	2300_M2_NY-0235-A	40.6453	-73.82	8/14/2002	Tharyx acutus	1	1	25	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY02-0239	-	2300_M2_NY-0239-A	40.659	-73.8388	8/14/2002	Hydrobiidae	1	1	25	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Mya arenaria	1	104	2600	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Podarke obscura	1	84	2100	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Tharyx acutus	1	71	1775	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Gemma gemma	1	39	975	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Cirratulidae	1	32	800	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Nereis succinea	1	29	725	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Capitella capitata	1	16	400	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Dyspanopeus sayi	1	15	375	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Actiniaria	1	14	350	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Hypereteone fauchaldi	1	13	325	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Nereis	1	12	300	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Elasmopus levis	1	9	225	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Eumida sanguinea	1	4	100	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Melita nitida	1	4	100	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Polycirrus eximius	1	4	100	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Spio filicornis	1	4	100	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Tubificidae	1	4	100	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Phyllodocidae	1	3	75	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Unciola serrata	1	3	75	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Lysianopsis alba	1	2	50	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Mediomastus	1	2	50	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Streblospio benedicti	1	2	50	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Cossura soyeri	1	1	25	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Crepidula plana	1	1	25	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Glycera americana	1	1	25	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Glycera dibranchiata	1	1	25	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Sabellaria vulgaris	1	1	25	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY03-0236	-	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	Terebellidae	1	1	25	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Ampelisca abdita	1	1316	32900	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Streblospio benedicti	1	324	8100	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Nucula proxima	1	52	1300	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Ilyanassa obsoleta	1	28	700	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Crangon septemspinosa	1	24	600	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Exogone rolani	1	24	600	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Tellina agilis	1	24	600	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Mediomastus	1	16	400	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Odostomia trifida	1	16	400	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Dyspanopeus sayi	1	12	300	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Mediomastus ambiseta	1	12	300	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Paramicrodeutopus	1	12	300	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Mercenaria mercenaria	1	8	200	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Monocorophium tuberculatum	1	8	200	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Crepidula plana	1	4	100	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Erichthonius brasiliensis	1	4	100	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Eumida sanguinea	1	4	100	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Mya arenaria	1	4	100	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Pherusa affinis	1	4	100	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Polydora cornuta	1	4	100	0.04
National Coastal Assessme	Estuarine	Jamaica Bay	NY04-0234	-	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	Veneridae	1	4	100	0.04

Note: taxonomy may differ slightly between reference area datasets due to the level of identification

* Location ID corresponds to associated chemistry and toxicity data, and has been provided as a cross-reference.

Complete list of taxa and abundance data from the Mullica River and Great Bay dataset (NJDEP, EMAP, NCA, NCCA)

Organization name	Habitat	Reference dataset	Station ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Ampelisca	1	164	4100	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Parasterope pollex	1	38	950	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Leucon americanus	1	8	200	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Glycinde solitaria	1	7	175	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Scoloplos robustus	1	5	125	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Lysianopsis alba	1	4	100	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Gastropoda	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Streblospio benedicti	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Tagelus plebeius	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Polydora cornuta	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Tubificidae	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Turbonilla	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Mitrella	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Melinna maculata	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Listriella barnardi	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Notomastus hemipodus	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Capitella capitata	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Amphipoda	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Bivalvia	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Porifera	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Diopatra cuprea	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	Exogone	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0036	NJ01-0036	39.511	-74.297	8/8/2001	Tanaissus psammophilus	1	56	1400	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0036	NJ01-0036	39.511	-74.297	8/8/2001	Tellina agilis	1	30	750	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0036	NJ01-0036	39.511	-74.297	8/8/2001	Parahaustorius attenuatus	1	20	500	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0036	NJ01-0036	39.511	-74.297	8/8/2001	Polygordius	1	6	150	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0036	NJ01-0036	39.511	-74.297	8/8/2001	Bathyporeia quoddyensis	1	5	125	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0036	NJ01-0036	39.511	-74.297	8/8/2001	Chiridotea tuftsii	1	5	125	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0036	NJ01-0036	39.511	-74.297	8/8/2001	Spisula solidissima	1	5	125	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0036	NJ01-0036	39.511	-74.297	8/8/2001	Microphthalmus	1	4	100	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0036	NJ01-0036	39.511	-74.297	8/8/2001	Bivalvia	1	3	75	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0036	NJ01-0036	39.511	-74.297	8/8/2001	Ancinus depressus	1	3	75	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0036	NJ01-0036	39.511	-74.297	8/8/2001	Paraonis fulgens	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0036	NJ01-0036	39.511	-74.297	8/8/2001	Sigalion arenicola	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0036	NJ01-0036	39.511	-74.297	8/8/2001	Petricola pholadiformis	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0036	NJ01-0036	39.511	-74.297	8/8/2001	Crangon septemspinosa	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0036	NJ01-0036	39.511	-74.297	8/8/2001	Mytilus edulis	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0036	NJ01-0036	39.511	-74.297	8/8/2001	Lineidae	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0036	NJ01-0036	39.511	-74.297	8/8/2001	Parasterope pollex	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0038	NJ01-0038	39.557	-74.480	7/19/2001	Tubificidae	1	27	675	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0038	NJ01-0038	39.557	-74.480	7/19/2001	Leitoscoloplos robustus	1	21	525	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0038	NJ01-0038	39.557	-74.480	7/19/2001	Mediomastus ambiseta	1	3	75	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0038	NJ01-0038	39.557	-74.480	7/19/2001	Crangon septemspinosa	1	3	75	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0038	NJ01-0038	39.557	-74.480	7/19/2001	Streblospio benedicti	1	3	75	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0038	NJ01-0038	39.557	-74.480	7/19/2001	Microdeutopus gryllotalpa	1	3	75	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0038	NJ01-0038	39.557	-74.480	7/19/2001	Mediomastus	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0038	NJ01-0038	39.557	-74.480	7/19/2001	Nereis succinea	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0038	NJ01-0038	39.557	-74.480	7/19/2001	Heteromastus filiformis	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0038	NJ01-0038	39.557	-74.480	7/19/2001	Tharyx acutus	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0038	NJ01-0038	39.557	-74.480	7/19/2001	Hydatinidae	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Ampelisca	1	265	6625	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Parasterope pollex	1	86	2150	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Listriella barnardi	1	24	600	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Eusarsiella zostericola	1	20	500	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Turbonilla interrupta	1	16	400	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Cerapus tubularis	1	15	375	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Glycinde solitaria	1	9	225	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Leitoscoloplos robustus	1	8	200	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Notomastus latericeus	1	8	200	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Acteocina canaliculata	1	6	150	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Tagelus plebeius	1	5	125	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Leucon americanus	1	5	125	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Lumbrineridae	1	3	75	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Tellina agilis	1	3	75	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Bivalvia	1	3	75	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Lysianopsis alba	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Exogone	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Ascidiacea	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Unciola irrorata	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Ericthonius brasiliensis	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Edotia triloba	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Phyllodocidae	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Hydrozoa	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Tubificidae	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Melinna maculata	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Batea catharinensis	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Glyceridae	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Leptosynapta tenuis	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	Portunidae	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Edotia triloba	1	57	1425	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Leptochelia rapax	1	41	1025	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Boccardiella	1	29	725	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Parasterope pollex	1	27	675	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Actiniaria	1	20	500	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Rictaxis punctostriatus	1	18	450	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Gastropoda	1	17	425	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Ampelisca	1	14	350	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Eusarsiella zostericola	1	12	300	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Rhithropanopeus harrisii	1	10	250	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Polydora cornuta	1	9	225	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Leptocheirus plumulosus	1	7	175	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Nereis succinea	1	5	125	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Demonax microphthalmus	1	5	125	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Nereis	1	4	100	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Tubificidae	1	4	100	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Melita nitida	1	4	100	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Melitidae	1	4	100	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Nemertea	1	4	100	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Pista palmata	1	4	100	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Aoridae	1	3	75	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Eteone fauchaldi	1	3	75	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Glycinde solitaria	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Paracaprella tenuis	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Microdeutopus gryllotalpa	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Acuminodeutopus naglei	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Ascidiacea	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Phyllodoce arenae	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Cirratulidae	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Glycera americana	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Cyathura polita	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Ericthonius	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Chironomidae	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Sphaerosyllis taylori	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Parahesione luteola	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Phyllodocidae	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	Sabellaria vulgaris	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0122	NJ01-0122	39.585	-74.538	10/18/2001	Leptocheirus plumulosus	1	171	4275	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0122	NJ01-0122	39.585	-74.538	10/18/2001	Tubificidae	1	72	1800	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0122	NJ01-0122	39.585	-74.538	10/18/2001	Hobsonia florida	1	68	1700	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0122	NJ01-0122	39.585	-74.538	10/18/2001	Laeonereis culveri	1	40	1000	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0122	NJ01-0122	39.585	-74.538	10/18/2001	Melita nitida	1	19	475	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0122	NJ01-0122	39.585	-74.538	10/18/2001	Manayunkia speciosa	1	7	175	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0122	NJ01-0122	39.585	-74.538	10/18/2001	Cyathura polita	1	6	150	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0122	NJ01-0122	39.585	-74.538	10/18/2001	Procladius	1	4	100	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0122	NJ01-0122	39.585	-74.538	10/18/2001	Monoculodes edwardsi	1	3	75	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0122	NJ01-0122	39.585	-74.538	10/18/2001	Gammarus palustris	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0122	NJ01-0122	39.585	-74.538	10/18/2001	Streblospio benedicti	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0122	NJ01-0122	39.585	-74.538	10/18/2001	Xanthidae	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0122	NJ01-0122	39.585	-74.538	10/18/2001	Edotia	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ01-0122	NJ01-0122	39.585	-74.538	10/18/2001	Marenzelleria viridis	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0229	NJ02-0229	39.582	-74.536	9/3/2002	Tubificidae	1	271	6775	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0229	NJ02-0229	39.582	-74.536	9/3/2002	Leptocheirus plumulosus	1	223	5575	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0229	NJ02-0229	39.582	-74.536	9/3/2002	Bivalvia	1	19	475	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0229	NJ02-0229	39.582	-74.536	9/3/2002	Cyathura polita	1	19	475	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0229	NJ02-0229	39.582	-74.536	9/3/2002	Streblospio benedicti	1	19	475	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0229	NJ02-0229	39.582	-74.536	9/3/2002	Laeonereis culveri	1	18	450	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0229	NJ02-0229	39.582	-74.536	9/3/2002	Leucon americanus	1	15	375	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0229	NJ02-0229	39.582	-74.536	9/3/2002	Edotia triloba	1	9	225	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0229	NJ02-0229	39.582	-74.536	9/3/2002	Amphicteis floridus	1	9	225	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0229	NJ02-0229	39.582	-74.536	9/3/2002	Tellinidae	1	7	175	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0229	NJ02-0229	39.582	-74.536	9/3/2002	Nemertea	1	4	100	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0229	NJ02-0229	39.582	-74.536	9/3/2002	Melita nitida	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0229	NJ02-0229	39.582	-74.536	9/3/2002	Ampelisca abdita	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0229	NJ02-0229	39.582	-74.536	9/3/2002	Heteromastus filiformis	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0229	NJ02-0229	39.582	-74.536	9/3/2002	Marenzelleria viridis	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0229	NJ02-0229	39.582	-74.536	9/3/2002	Hirudinea	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0229	NJ02-0229	39.582	-74.536	9/3/2002	Gammarus	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0229	NJ02-0229	39.582	-74.536	9/3/2002	Nereididae	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Streblospio benedicti	1	1126	28150	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Ampelisca vadorum	1	252	6300	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Cerapus tubularis	1	119	2975	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Tubificidae	1	98	2450	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Lumbrinereis	1	94	2350	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Leitoscoloplos fragilis	1	43	1075	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Cossura	1	15	375	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Paracaprella tenuis	1	13	325	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Lysianopsis alba	1	11	275	0.04

Complete list of taxa and abundance data from the Mullica River and Great Bay dataset (NJDEP, EMAP, NCA, NCCA)

Organization name	Habitat	Reference dataset	Station ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Glycinde solitaria	1	8	200	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Tellina agilis	1	6	150	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Orbiniidae	1	6	150	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Tharyx acutus	1	4	100	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Sphaerosyllis hystrix	1	4	100	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Exogone dispar	1	4	100	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Prionospio heterobranchia	1	4	100	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Nemertea	1	3	75	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Melinna cristata	1	3	75	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Spiochaetopterus oculatus	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Mediomastus ambiseta	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Phyllodoce arenae	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Clymenella torquata	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Prionospio	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Polydora cornuta	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Corophium tuberculatum	1	2	50	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Oxyurostylis smithi	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Solemya velum	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Ensis directus	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Asabellides oculata	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Glycera americana	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Cirratulidae	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Heteromastus filiformis	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Arabella iricolor	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Aricidea	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Asychis elongata	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Sphaerosyllis erinaceus	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Scolelepis texana	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Polydora socialis	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Ampelisca verrilli	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Listriella barnardi	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Aoridae	1	1	25	0.04
Environmental Monitoring and Assessment Program	Estuarine	Mullica River/Great Bay	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	Ampithoidae	1	1	25	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ00-0041	NJ00-0041	39.612	-74.589	9/7/2000	Gammarus palustris	1	59	1475	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ00-0041	NJ00-0041	39.612	-74.589	9/7/2000	Stictochironomus	1	53	1325	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ00-0041	NJ00-0041	39.612	-74.589	9/7/2000	Corophium lacustre	1	31	775	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ00-0041	NJ00-0041	39.612	-74.589	9/7/2000	Cyathura polita	1	9	225	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ00-0041	NJ00-0041	39.612	-74.589	9/7/2000	Gammarus	1	8	200	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ00-0041	NJ00-0041	39.612	-74.589	9/7/2000	Ceratopogonidae	1	8	200	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ00-0041	NJ00-0041	39.612	-74.589	9/7/2000	Tubificidae	1	7	175	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ00-0041	NJ00-0041	39.612	-74.589	9/7/2000	Chiridotea tuftsii	1	6	150	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ00-0041	NJ00-0041	39.612	-74.589	9/7/2000	Corophium	1	4	100	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ00-0041	NJ00-0041	39.612	-74.589	9/7/2000	Leptocheirus	1	2	50	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ00-0041	NJ00-0041	39.612	-74.589	9/7/2000	Ampelisca	1	2	50	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ00-0041	NJ00-0041	39.612	-74.589	9/7/2000	Cryptochironomus	1	1	25	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ00-0041	NJ00-0041	39.612	-74.589	9/7/2000	Leptocheirus plumulosus	1	1	25	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ00-0041	NJ00-0041	39.612	-74.589	9/7/2000	Polypedilum simulans	1	1	25	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ00-0041	NJ00-0041	39.612	-74.589	9/7/2000	Parasterope pollex	1	1	25	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ01-0120	NJ01-0120	39.620	-74.630	10/18/2001	Tubificidae	1	95	2375	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ01-0120	NJ01-0120	39.620	-74.630	10/18/2001	Dicrotendipes	1	42	1050	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ01-0120	NJ01-0120	39.620	-74.630	10/18/2001	Unionicola	1	20	500	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ01-0120	NJ01-0120	39.620	-74.630	10/18/2001	Procladius	1	16	400	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ01-0120	NJ01-0120	39.620	-74.630	10/18/2001	Ceratopogonidae	1	11	275	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ01-0120	NJ01-0120	39.620	-74.630	10/18/2001	Ablabesmyia	1	9	225	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ01-0120	NJ01-0120	39.620	-74.630	10/18/2001	Orthocladius	1	8	200	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ01-0120	NJ01-0120	39.620	-74.630	10/18/2001	Chironomidae	1	6	150	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ01-0120	NJ01-0120	39.620	-74.630	10/18/2001	Coelotanypus	1	5	125	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ01-0120	NJ01-0120	39.620	-74.630	10/18/2001	Bivalvia	1	3	75	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ01-0120	NJ01-0120	39.620	-74.630	10/18/2001	Manayunkia speciosa	1	3	75	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ01-0120	NJ01-0120	39.620	-74.630	10/18/2001	Chironomus	1	3	75	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ01-0120	NJ01-0120	39.620	-74.630	10/18/2001	Epoicocladius	1	3	75	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ01-0120	NJ01-0120	39.620	-74.630	10/18/2001	Probezzia	1	3	75	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ01-0120	NJ01-0120	39.620	-74.630	10/18/2001	Cryptochironomus	1	2	50	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ01-0120	NJ01-0120	39.620	-74.630	10/18/2001	Paratanytarsus	1	1	25	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ01-0120	NJ01-0120	39.620	-74.630	10/18/2001	Phaenopsectra	1	1	25	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ01-0120	NJ01-0120	39.620	-74.630	10/18/2001	Psectrocladius	1	1	25	0.04
Environmental Monitoring and Assessment Program	Freshwater	Mullica River freshwater	NJ01-0120	NJ01-0120	39.620	-74.630	10/18/2001	Gammarus	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ03-0038-A	2300_L3_NJ03-0038	39.557	-74.480	10/29/2003	Actiniaria	1	24	600	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ03-0038-A	2300_L3_NJ03-0038	39.557	-74.480	10/29/2003	Ampelisca vadorum	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ03-0038-A	2300_L3_NJ03-0038	39.557	-74.480	10/29/2003	Ascidiacea	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ03-0038-A	2300_L3_NJ03-0038	39.557	-74.480	10/29/2003	Corophiidae	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ03-0038-A	2300_L3_NJ03-0038	39.557	-74.480	10/29/2003	Cyathura polita	1	17	425	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ03-0038-A	2300_L3_NJ03-0038	39.557	-74.480	10/29/2003	Dipolydora socialis	1	7	175	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ03-0038-A	2300_L3_NJ03-0038	39.557	-74.480	10/29/2003	Edotia triloba	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ03-0038-A	2300_L3_NJ03-0038	39.557	-74.480	10/29/2003	Heteromastus filiformis	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ03-0038-A	2300_L3_NJ03-0038	39.557	-74.480	10/29/2003	Leucon americanus	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ03-0038-A	2300_L3_NJ03-0038	39.557	-74.480	10/29/2003	Microdeutopus gryllotalpa	1	7	175	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ03-0038-A	2300_L3_NJ03-0038	39.557	-74.480	10/29/2003	Nereis succinea	1	4	100	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ03-0038-A	2300_L3_NJ03-0038	39.557	-74.480	10/29/2003	Rhynchocoela	1	4	100	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ03-0038-A	2300_L3_NJ03-0038	39.557	-74.480	10/29/2003	Streblospio benedicti	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ03-0038-A	2300_L3_NJ03-0038	39.557	-74.480	10/29/2003	Tubificidae	1	7	175	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Acteocina canaliculata	1	14	350	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Americamysis	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Americamysis bigelowi	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Ampelisca abdita	1	661	16525	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Ascidiacea	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Batea catharinensis	1	6	150	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Calyptraeidae	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Cerapus tubularis	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Crepidula fornicata	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Cyclaspis varians	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Elasmopus levis	1	3	75	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Erichthonius brasiliensis	1	8	200	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Eusarsiella ozotothrix	1	44	1100	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Eusarsiella texana	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Eusarsiella zostericola	1	47	1175	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Exogone rolani	1	5	125	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Gastropoda	1	3	75	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Glycera americana	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Glycinde solitaria	1	18	450	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Haminoea solitaria	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Leitoscoloplos	1	10	250	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Leitoscoloplos robustus	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Leptosynapta tenuis	1	17	425	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Leucon americanus	1	34	850	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Microdeutopus gryllotalpa	1	7	175	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Microprotopus raneyi	1	25	625	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Mitrella lunata	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Monocorophium acherusicum	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Nereis succinea	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Notomastus latericeus	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Paracaprella tenuis	1	4	100	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Paraprionospio pinnata	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Parasterope pollex	1	50	1250	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Phyllodoce arenae	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Pinnixa	1	3	75	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Podarkeopsis levifuscina	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Polydora cornuta	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Rhynchocoela	1	19	475	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Sabaco americanus	1	9	225	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Sipuncula	1	3	75	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Tellina	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Tellina agilis	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Tubificidae	1	7	175	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Turbonilla interrupta	1	70	1750	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	Unciola serrata	1	9	225	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0429-A	2300_L4_NJ04-0429	39.568	-74.502	7/9/2004	Edotia triloba	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0429-A	2300_L4_NJ04-0429	39.568	-74.502	7/9/2004	Heteromastus filiformis	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0429-A	2300_L4_NJ04-0429	39.568	-74.502	7/9/2004	Leptocheirus plumulosus	1	4	100	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0429-A	2300_L4_NJ04-0429	39.568	-74.502	7/9/2004	Leucon americanus	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0429-A	2300_L4_NJ04-0429	39.568	-74.502	7/9/2004	Rhynchocoela	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0429-A	2300_L4_NJ04-0429	39.568	-74.502	7/9/2004	Streblospio benedicti	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0429-A	2300_L4_NJ04-0429	39.568	-74.502	7/9/2004	Tellinidae	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ04-0429-A	2300_L4_NJ04-0429	39.568	-74.502	7/9/2004	Tubificidae	1	3	75	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Eusarsiella zostericola	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Edotia triloba	1	6	150	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Nereididae	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Glycinde solitaria	1	3	75	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Diopatra cuprea	1	15	375	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Leitoscoloplos	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Capitellidae	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Capitella capitata	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Heteromastus filiformis	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Tubificidae	1	204	5100	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Gastropoda	1	11	275	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Bivalvia	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Pycnogonida	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Parasterope pollex	1	27	675	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Amphipoda	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Ampelisca	1	19	475	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Ampelisca abdita	1	576	14400	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Aoridae	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Erichthonius brasiliensis	1	3	75	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Microprotopus raneyi	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Lysianopsis alba	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	Paracaprella tenuis	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Leptosynapta	1	2	50	0.04

Complete list of taxa and abundance data from the Mullica River and Great Bay dataset (NJDEP, EMAP, NCA, NCCA)

Organization name	Habitat	Reference dataset	Station ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Leitoscoloplos robustus	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Eusarsiella zostericola	1	10	250	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Edotia triloba	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Podarkeopsis levifuscina	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Rhynchocoela	1	3	75	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Sphaerosyllis taylori	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Glycinde solitaria	1	18	450	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Diopatra cuprea	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Scoletoma tenuis	1	3	75	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Leitoscoloplos	1	21	525	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Scolelepis texana	1	4	100	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Spiochaetopterus oculatus	1	13	325	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Cossura soyeri	1	7	175	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Notomastus latericeus	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Mediomastus	1	11	275	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Mediomastus ambiseta	1	8	200	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Ampharetidae	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Melinna maculata	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Eusarsiella ozotothrix	1	7	175	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Eusarsiella texana	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Tubificidae	1	39	975	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Gastropoda	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Acteocina canaliculata	1	6	150	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Tellinidae	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Tagelus plebeius	1	3	75	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Parasterope pollex	1	75	1875	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Cumacea	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Leucon americanus	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Oxyurostylis	1	3	75	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Cyathura polita	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Erichsonella filiformis	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Ampelisca vadorum	1	18	450	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Ampelisca verrilli	1	3	75	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Batea catharinensis	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Cerapus	1	3	75	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Caprellidae	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Xanthidae	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	Exogone rolani	1	4	100	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Ascidiacea	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Leitoscoloplos robustus	1	16	400	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Rhynchocoela	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Glycera americana	1	4	100	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Glycinde solitaria	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Diopatra cuprea	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Paraprionospio pinnata	1	6	150	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Streblospio benedicti	1	12	300	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Spiochaetopterus oculatus	1	10	250	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Cossura soyeri	1	10	250	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Capitellidae	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Notomastus latericeus	1	16	400	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Mediomastus	1	16	400	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Maldanidae	1	4	100	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Sabellaria vulgaris	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Ampharetidae	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Eupolymnia nebulosa	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Eusarsiella ozotothrix	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Tubificidae	1	8	200	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Gastropoda	1	12	300	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Bivalvia	1	3	75	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Parasterope pollex	1	3	75	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Leucon americanus	1	3	75	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Erichsonella filiformis	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Ampelisca vadorum	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Cerapus tubularis	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Listriella barnardi	1	4	100	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Paracaprella tenuis	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Exogone rolani	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	Sabaco elongatus	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Rhynchocoela	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Lineidae	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Harmothoe imbricata	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Sigambra	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Nereis acuminata	1	44	1100	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Leitoscoloplos	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Paraonidae	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Aricidea	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Prionospio steenstrupi	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Spiophanes bombyx	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Streblospio benedicti	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Scolelepis texana	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Tharyx acutus	1	4	100	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Demonax microphthalmus	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Tubificidae	1	6	150	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Bivalvia	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Mytilus edulis	1	16	400	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Tellina agilis	1	29	725	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Parasterope pollex	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Oxyurostylis smithi	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Cyathura polita	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Ampelisca verrilli	1	3	75	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Erichthonius brasiliensis	1	6	150	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Elasmopus levis	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Gammarus mucronatus	1	6	150	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Haustoriidae	1	4	100	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Protohaustorius wigleyi	1	15	375	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Rhepoxynius hudsoni	1	26	650	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Caprella penantis	1	3	75	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Estuarine	Mullica River/Great Bay	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	Pagurus	1	4	100	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ02-0232	NJ02-0232	39.629	-74.643	9/3/2002	Caecidotea	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ02-0232	NJ02-0232	39.629	-74.643	9/3/2002	Ceratopogonidae	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ02-0232	NJ02-0232	39.629	-74.643	9/3/2002	Chironomidae	1	78	1950	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ02-0232	NJ02-0232	39.629	-74.643	9/3/2002	Chrysomelidae	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ02-0232	NJ02-0232	39.629	-74.643	9/3/2002	Ephemeridae	1	38	950	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ02-0232	NJ02-0232	39.629	-74.643	9/3/2002	Ephemeroptera	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ02-0232	NJ02-0232	39.629	-74.643	9/3/2002	Hirudinea	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ02-0232	NJ02-0232	39.629	-74.643	9/3/2002	Leptoceridae	1	4	100	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ02-0232	NJ02-0232	39.629	-74.643	9/3/2002	Megaloptera	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ02-0232	NJ02-0232	39.629	-74.643	9/3/2002	Pyralidae	1	4	100	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ02-0232	NJ02-0232	39.629	-74.643	9/3/2002	Stenelmis	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ02-0232	NJ02-0232	39.629	-74.643	9/3/2002	Streblospio benedicti	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ02-0232	NJ02-0232	39.629	-74.643	9/3/2002	Trichoptera	1	3	75	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ02-0232	NJ02-0232	39.629	-74.643	9/3/2002	Tubificidae	1	18	450	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ06-0046	NJ06-0046	39.612	-74.589	8/8/2006	Bivalvia	1	6	150	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ06-0046	NJ06-0046	39.612	-74.589	8/8/2006	Ceratopogonidae	1	10	250	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ06-0046	NJ06-0046	39.612	-74.589	8/8/2006	Chiridotea arenicola	1	32	800	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ06-0046	NJ06-0046	39.612	-74.589	8/8/2006	Cryptochironomus	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ06-0046	NJ06-0046	39.612	-74.589	8/8/2006	Cyathura polita	1	1	25	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ06-0046	NJ06-0046	39.612	-74.589	8/8/2006	Gammarus palustris	1	31	775	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ06-0046	NJ06-0046	39.612	-74.589	8/8/2006	Leptocheirus pinguis	1	2	50	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ06-0046	NJ06-0046	39.612	-74.589	8/8/2006	Marenzelleria viridis	1	7	175	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ06-0046	NJ06-0046	39.612	-74.589	8/8/2006	Stictochironomus	1	22	550	0.04
National Coastal Assessment-Northeast/New Jersey Marine Sci	Freshwater	Mullica River freshwater	NJ06-0046	NJ06-0046	39.612	-74.589	8/8/2006	Tubificidae	1	32	800	0.04
National Coastal Condition Assessment	Estuarine	Mullica River/Great Bay	NCCA10-2622	NCCA10-2622	39.50785	-74.33571	8/5/2010	Protohaustorius wigleyi	1	71	1775	0.04
National Coastal Condition Assessment	Estuarine	Mullica River/Great Bay	NCCA10-2622	NCCA10-2622	39.50785	-74.33571	8/5/2010	Pseudohaustorius carolinensis	1	22	550	0.04
National Coastal Condition Assessment	Estuarine	Mullica River/Great Bay	NCCA10-2622	NCCA10-2622	39.50785	-74.33571	8/5/2010	Tellina	1	2	50	0.04
National Coastal Condition Assessment	Estuarine	Mullica River/Great Bay	NCCA10-2622	NCCA10-2622	39.50785	-74.33571	8/5/2010	Cyclaspis varians	1	2	50	0.04
National Coastal Condition Assessment	Estuarine	Mullica River/Great Bay	NCCA10-2622	NCCA10-2622	39.50785	-74.33571	8/5/2010	Nematoda	1	1	25	0.04
National Coastal Condition Assessment	Estuarine	Mullica River/Great Bay	NCCA10-2622	NCCA10-2622	39.50785	-74.33571	8/5/2010	Synchelidium	1	1	25	0.04
National Coastal Condition Assessment	Estuarine	Mullica River/Great Bay	NCCA10-2622	NCCA10-2622	39.50785	-74.33571	8/5/2010	Mactridae	1	1	25	0.04
National Coastal Condition Assessment	Estuarine	Mullica River/Great Bay	NCCA10-2622	NCCA10-2622	39.50785	-74.33571	8/5/2010	Mediomastus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Nais	1	18	450	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Tanytarsus	1	13	325	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Cricotopus	1	10	250	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Amnicola	1	9	225	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Prostoma	1	8	200	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Sphaerium	1	7	175	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Polypedilum	1	6	150	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Hydrobaenus	1	4	100	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Dicrotendipes	1	4	100	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Lumbriculus variegatus	1	4	100	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Aulodrilus	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Stylaria	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Caenis	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Microtendipes	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Limnodrilus	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Rheotanytarsus	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Nanocladius	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Hyalella	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Cheumatopsyche	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Argia	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Pisidium	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Chironomidae	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Rheocricotopus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Tvetenia	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Stenelmis	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Paratanytarsus	1	1	25	0.04

Complete list of taxa and abundance data from the Mullica River and Great Bay dataset (NJDEP, EMAP, NCA, NCCA)

Organization name	Habitat	Reference dataset	Station ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Paraponyx	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Oxyethira	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Dromogomphus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Physella	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Unniella	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Diplocladius	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Hydroptilidae	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Ferrissia	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600300	na	39.7859167	-74.860194	3/2/2000	Corixidae	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Pisidium casertanum	1	13	325	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Prostoma rubrum	1	10	250	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Sphaerium securis	1	6	150	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Palaemonetes paludosus	1	5	125	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Slavina appendiculata	1	5	125	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Lumbriculus variegatus	1	5	125	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Limnodrilus claparedianus	1	4	100	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Psectrocladius psilopterus	1	4	100	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Argia bipunctulata	1	4	100	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Haliplus	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Cheumatopsyche	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Pisidium dubium	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Tanytarsus confusus	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Hydrobaenus johannseni	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Gillia altilis	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Lepidostoma	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Eurycercus lamellatus	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Limnodrilus udekemianus	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Pseudosuccinea columella	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Chaetogaster	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Dero nivea	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Batracobdella phalera	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Hydropsyche betteni	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Orthocladius dorenus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Oxyethira	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Procladius bellus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Somatochlora	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Agrypnia	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Tanytarsus varelus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Aulodrilus pluriseta	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Dicrotendipes fumidus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Psectrocladius	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Paraphaenocladius	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Paraleptophlebia	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05600395	na	39.7859167	-74.860194	3/9/1995	Pseudochironomus fulviventris	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Corbicula	1	28	700	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Cheumatopsyche	1	24	600	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Amnicola	1	8	200	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Lumbriculus	1	5	125	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Hydropsyche betteni	1	5	125	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Simulium	1	5	125	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Stylaria lacustris	1	4	100	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Slavina appendiculata	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Stenochironomus	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Polypedilum	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Prostoma graecense	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Nais	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Palaemonetes paludosus	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Psectrocladius	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Cricotopus	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Musculium	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Tanytarsus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Rheotanytarsus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Stenelmis	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Boyeria	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Dero	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Eurylophella	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05601104	na	39.7859167	-74.860194	11/23/2004	Dugesia tigrina	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610300	na	39.7762778	-74.79875	3/2/2000	Asellus communis	1	16	400	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610300	na	39.7762778	-74.79875	3/2/2000	Leptophlebia	1	13	325	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610300	na	39.7762778	-74.79875	3/2/2000	Apsectrotanypus	1	10	250	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610300	na	39.7762778	-74.79875	3/2/2000	Synurella chamberlaini	1	9	225	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610300	na	39.7762778	-74.79875	3/2/2000	Platycentropus	1	9	225	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610300	na	39.7762778	-74.79875	3/2/2000	Polycentropus	1	8	200	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610300	na	39.7762778	-74.79875	3/2/2000	Tribelos	1	6	150	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610300	na	39.7762778	-74.79875	3/2/2000	Conchapelopia	1	5	125	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610300	na	39.7762778	-74.79875	3/2/2000	Heterotrissocladius	1	5	125	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610300	na	39.7762778	-74.79875	3/2/2000	Limnodrilus	1	5	125	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610300	na	39.7762778	-74.79875	3/2/2000	Hydrobaenus	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610300	na	39.7762778	-74.79875	3/2/2000	Sialis	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610300	na	39.7762778	-74.79875	3/2/2000	Cnephia mutata	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610300	na	39.7762778	-74.79875	3/2/2000	Hydroporus	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610300	na	39.7762778	-74.79875	3/2/2000	Leuctra	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610300	na	39.7762778	-74.79875	3/2/2000	Paraphaenocladius	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610300	na	39.7762778	-74.79875	3/2/2000	Paracapnia	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610300	na	39.7762778	-74.79875	3/2/2000	Chironomidae	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610300	na	39.7762778	-74.79875	3/2/2000	Corixidae	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610395	na	39.7762778	-74.79875	3/9/1995	Tribelos	1	25	625	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610395	na	39.7762778	-74.79875	3/9/1995	Synurella chamberlaini	1	14	350	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610395	na	39.7762778	-74.79875	3/9/1995	Limnodrilus	1	13	325	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610395	na	39.7762778	-74.79875	3/9/1995	Asellus communis	1	7	175	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610395	na	39.7762778	-74.79875	3/9/1995	Hydrobaenus johannseni	1	6	150	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610395	na	39.7762778	-74.79875	3/9/1995	Tvetenia bavarica	1	5	125	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610395	na	39.7762778	-74.79875	3/9/1995	Cyphon	1	5	125	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610395	na	39.7762778	-74.79875	3/9/1995	Dero	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610395	na	39.7762778	-74.79875	3/9/1995	Heterotrissocladius	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610395	na	39.7762778	-74.79875	3/9/1995	Nigronia	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610395	na	39.7762778	-74.79875	3/9/1995	Sialis	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610395	na	39.7762778	-74.79875	3/9/1995	Dicranota	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610395	na	39.7762778	-74.79875	3/9/1995	Procladius	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610395	na	39.7762778	-74.79875	3/9/1995	Hydroporus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610395	na	39.7762778	-74.79875	3/9/1995	Corynoneura	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610395	na	39.7762778	-74.79875	3/9/1995	Parachaetocladius	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610395	na	39.7762778	-74.79875	3/9/1995	Tipula	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610395	na	39.7762778	-74.79875	3/9/1995	Conchapelopia	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610395	na	39.7762778	-74.79875	3/9/1995	Lumbriculus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610705	na	39.7762778	-74.79875	7/27/2005	Tribelos	1	59	1475	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610705	na	39.7762778	-74.79875	7/27/2005	Caecidotea	1	19	475	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610705	na	39.7762778	-74.79875	7/27/2005	Synurella chamberlaini	1	13	325	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610705	na	39.7762778	-74.79875	7/27/2005	Sialis	1	10	250	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610705	na	39.7762778	-74.79875	7/27/2005	Apsectrotanypus	1	5	125	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610705	na	39.7762778	-74.79875	7/27/2005	Thienemannimyia	1	4	100	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610705	na	39.7762778	-74.79875	7/27/2005	Limnodrilus	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610705	na	39.7762778	-74.79875	7/27/2005	Polycentropus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610705	na	39.7762778	-74.79875	7/27/2005	Gyrinidae	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610705	na	39.7762778	-74.79875	7/27/2005	Hydroporus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05610705	na	39.7762778	-74.79875	7/27/2005	Chironomus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Leptophlebia	1	24	600	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Cricotopus	1	16	400	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Psectrocladius	1	11	275	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Conchapelopia	1	8	200	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Hydrobaenus	1	6	150	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Platycentropus	1	5	125	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Sialis	1	4	100	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Cnephia mutata	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Limnodrilus	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Asellus	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Procladius	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Hydropsyche decalda	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Heterotrissocladius	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Ischnura	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Dicranota	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Stenonema	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Ablabesmyia	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Corixidae	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Clinotanypus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Lumbriculus variegatus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Oecetis	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Oxyethira	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Ptilostomis	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Unniella	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Tribelos	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620300	na	39.7430556	-74.757111	3/9/2000	Pycnopsyche	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Leptophlebia	1	35	875	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Heterotrissocladius marcidus	1	19	475	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Lumbriculus variegatus	1	9	225	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Palpomyia tibialis	1	5	125	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Siphloplecton	1	4	100	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Argia violacea	1	4	100	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Cnephia mutata	1	4	100	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Dero nivea	1	4	100	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Sialis	1	4	100	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Dromogomphus	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Polycentropus	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Phylocentropus	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Hydroporus	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Tribelos jucundus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Micropsectra deflecta	1	1	25	0.04

Complete list of taxa and abundance data from the Mullica River and Great Bay dataset (NJDEP, EMAP, NCA, NCCA)

Organization name	Habitat	Reference dataset	Station ID	Location ID*	Latitude	Longitude	Sampling date	Lowest Practical Taxon	Sample Fraction	Abundance (raw)	Abundance (per m2)	Sieve size
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Limnodrilus claparedianus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Pycnopsyche	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Limnodrilus udekemianus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Hydrobaenus johannseni	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Conchapelopia	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Psectrotanypus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620395	na	39.7430556	-74.757111	3/9/1995	Maruina	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620705	na	39.7430556	-74.757111	7/27/2005	Tribelos	1	39	975	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620705	na	39.7430556	-74.757111	7/27/2005	Corixidae	1	7	175	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620705	na	39.7430556	-74.757111	7/27/2005	Molanna	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620705	na	39.7430556	-74.757111	7/27/2005	Brachycentrus	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620705	na	39.7430556	-74.757111	7/27/2005	Tubifex tubifex	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620705	na	39.7430556	-74.757111	7/27/2005	Argia	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620705	na	39.7430556	-74.757111	7/27/2005	Thienemannimyia	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620705	na	39.7430556	-74.757111	7/27/2005	Gomphus	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620705	na	39.7430556	-74.757111	7/27/2005	Sialis	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620705	na	39.7430556	-74.757111	7/27/2005	Polypedilum illinoense	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620705	na	39.7430556	-74.757111	7/27/2005	Polycentropus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620705	na	39.7430556	-74.757111	7/27/2005	Dero	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620705	na	39.7430556	-74.757111	7/27/2005	Enchytraeidae	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620705	na	39.7430556	-74.757111	7/27/2005	Nematoda	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620705	na	39.7430556	-74.757111	7/27/2005	Macromia	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620705	na	39.7430556	-74.757111	7/27/2005	Phaenopsectra	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620705	na	39.7430556	-74.757111	7/27/2005	Cryptochironomus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620705	na	39.7430556	-74.757111	7/27/2005	Ablabesmyia	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620705	na	39.7430556	-74.757111	7/27/2005	Apsectrotanypus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05620705	na	39.7430556	-74.757111	7/27/2005	Hydroporus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640200	na	39.6592542	-74.658588	2/10/2000	Prosimulium	1	10	250	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640200	na	39.6592542	-74.658588	2/10/2000	Rheocricotopus tuberculatus	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640200	na	39.6592542	-74.658588	2/10/2000	Conchapelopia telema	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640200	na	39.6592542	-74.658588	2/10/2000	Bezzia glabra	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640200	na	39.6592542	-74.658588	2/10/2000	Potthastia longimana	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640200	na	39.6592542	-74.658588	2/10/2000	Nyctiophylax	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640295	na	39.6592542	-74.658588	2/23/1995	Prosimulium	1	56	1400	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640295	na	39.6592542	-74.658588	2/23/1995	Simulium	1	6	150	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640295	na	39.6592542	-74.658588	2/23/1995	Hydropsyche	1	6	150	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640295	na	39.6592542	-74.658588	2/23/1995	Lumbriculus	1	6	150	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640295	na	39.6592542	-74.658588	2/23/1995	Stenelmis	1	5	125	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640295	na	39.6592542	-74.658588	2/23/1995	Cricotopus bicinctus	1	4	100	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640295	na	39.6592542	-74.658588	2/23/1995	Parachaetocladius hudsoni	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640295	na	39.6592542	-74.658588	2/23/1995	Ophidonais serpentina	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640295	na	39.6592542	-74.658588	2/23/1995	Cnephia mutata	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640295	na	39.6592542	-74.658588	2/23/1995	Isoperla	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640295	na	39.6592542	-74.658588	2/23/1995	Tipula	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640295	na	39.6592542	-74.658588	2/23/1995	Tubifex	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640295	na	39.6592542	-74.658588	2/23/1995	Perlinella	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640295	na	39.6592542	-74.658588	2/23/1995	Pycnopsyche	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640295	na	39.6592542	-74.658588	2/23/1995	Phaenopsectra	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640295	na	39.6592542	-74.658588	2/23/1995	Hexatoma	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640295	na	39.6592542	-74.658588	2/23/1995	Conchapelopia	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Simulium	1	22	550	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Pycnopsyche	1	10	250	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Oecetis	1	7	175	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Thienemannimyia	1	6	150	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Enchytraeidae	1	4	100	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Unniella	1	4	100	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Psectrocladius	1	4	100	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Leptophlebiidae	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Probezzia	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Ptilostomis	1	3	75	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Orthocladius	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Cricotopus	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Isogenoides	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Hydropsyche decalda	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Pisidium	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Ceratopogonidae	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Isoperla	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Polypedilum illinoense	1	2	50	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Tribelos	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Stelechomyia	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Limnodrilus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Perlinella	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Progomphus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Gomphidae	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Boyeria	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Tipula	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Hydroptila	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Hexatoma	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Tvetenia vitracies	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Ancyronyx variegatus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Clinotanypus	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Paralauterborniella	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Procladius	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Stenelmis	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Triaenodes	1	1	25	0.04
NJ Department of Environmental Protection	Freshwater	Mullica River freshwater	AN05640406	na	39.6592542	-74.658588	4/6/2006	Polypedilum halterale	1	1	25	0.04

Note: taxonomy may differ slightly between reference area datasets due to the level of identification

* Location ID corresponds to associated chemistry and toxicity data, and has been provided as a cross-reference.

Complete list of taxa and abundance data from the area above Dundee Dam (Windward, in prep) (collected 2012)

Event	Habitat	Reference Dataset	Location ID	Collection Date	Sample ID	Collection Method	Percent Subsampled	Lowest Practical Taxon	Abundance (raw)	Corrected abundance (to 100% of sample)	Abundance (per m2)	Sieve size
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Oecetis sp.	1	1.2	24	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Chironomus sp.	92	110.4	2208	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Cladopelma sp.	6	7.2	144	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Cryptochironomus sp.	16	19.2	384	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Dicrotendipes sp.	1	1.2	24	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Procladius sp.	14	16.8	336	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Tanypus sp.	3	3.6	72	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Tanytarsus sp.	9	10.8	216	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Bezzia/Palpomyia sp.	1	1.2	24	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Arcteonais lomondi	11	13.2	264	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Aulodrilus limnobius	11	13.2	264	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Aulodrilus pigueti	13	15.6	312	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Dero digitata	1	1.2	24	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Limnodrilus hoffmeisteri	143	171.6	3432	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Limnodrilus udekemianus	5	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Quistadrilus multisetosus	44	52.8	1056	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Tubificidae w/ cap setae	28	33.6	672	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Corbicula sp.	2	2.4	48	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Sphaeriidae	3	3.6	72	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Gammaridae	1	1.2	24	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC01	Ponar	83.3	Turbellaria	14	16.8	336	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC02	Ponar	66.7	Chironomus sp.	60	90.0	1800	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC02	Ponar	66.7	Cladopelma sp.	4	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC02	Ponar	66.7	Cryptochironomus sp.	10	15.0	300	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC02	Ponar	66.7	Procladius sp.	15	22.5	450	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC02	Ponar	66.7	Tanytarsus sp.	12	18.0	360	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC02	Ponar	66.7	Arcteonais lomondi	6	9.0	180	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC02	Ponar	66.7	Aulodrilus limnobius	2	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC02	Ponar	66.7	Aulodrilus pigueti	4	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC02	Ponar	66.7	Ilyodrilus templetoni	27	40.5	810	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC02	Ponar	66.7	Limnodrilus hoffmeisteri	207	310.5	6210	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC02	Ponar	66.7	Limnodrilus udekemianus	8	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC02	Ponar	66.7	Quistadrilus multisetosus	37	55.5	1110	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC02	Ponar	66.7	Corbicula sp.	2	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC02	Ponar	66.7	Koenikea sp.	2	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC02	Ponar	66.7	Turbellaria	4	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC02	Ponar	66.7	Nematoda	1	1.5	30	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC03	Ponar	56.3	Orthotrichia sp.	1	1.8	36	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC03	Ponar	56.3	Chironomus sp.	52	92.4	1849	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC03	Ponar	56.3	Cladopelma sp.	2	3.6	71	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC03	Ponar	56.3	Cryptochironomus sp.	22	39.1	782	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC03	Ponar	56.3	Procladius sp.	12	21.3	427	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC03	Ponar	56.3	Tanypus sp.	3	5.3	107	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC03	Ponar	56.3	Tanytarsus sp.	4	7.1	142	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC03	Ponar	56.3	Arcteonais lomondi	16	28.4	569	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC03	Ponar	56.3	Aulodrilus limnobius	7	12.4	249	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC03	Ponar	56.3	Aulodrilus pigueti	13	23.1	462	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC03	Ponar	56.3	Dero digitata	1	1.8	36	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC03	Ponar	56.3	Limnodrilus hoffmeisteri	108	192.0	3840	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC03	Ponar	56.3	Limnodrilus udekemianus	4	7.1	142	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC03	Ponar	56.3	Quistadrilus multisetosus	48	85.3	1707	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC03	Ponar	56.3	Tubificidae w/ cap setae	44	78.2	1564	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC03	Ponar	56.3	Sphaeriidae	1	1.8	36	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC03	Ponar	56.3	Ferrissia sp.	1	1.8	36	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC03	Ponar	56.3	Limnesia sp.	2	3.6	71	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC03	Ponar	56.3	Turbellaria	6	10.7	213	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18H	11-12-2012	UPRT18H-BC03	Ponar	56.3	Nematoda	1	1.8	36	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Oecetis sp.	1	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Chironomus sp.	69	184.0	3680	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Cryptochironomus sp.	17	45.3	907	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Dicrotendipes sp.	1	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Polypedilum halterale gr.	3	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Procladius sp.	14	37.3	747	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Tanypus sp.	2	5.3	107	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Tanytarsus sp.	3	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Arcteonais lomondi	16	42.7	853	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Aulodrilus limnobius	29	77.3	1547	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Aulodrilus pigueti	30	80.0	1600	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Dero digitata	2	5.3	107	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Limnodrilus hoffmeisteri	123	328.0	6560	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Limnodrilus udekemianus	1	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Quistadrilus multisetosus	9	24.0	480	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Slavina appendiculata	1	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Tubificidae w/ cap setae	22	58.7	1173	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Corbicula sp.	4	10.7	213	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Sphaeriidae	9	24.0	480	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Gammaridae	2	5.3	107	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Koenikea sp.	2	5.3	107	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC01	Ponar	37.5	Turbellaria	3	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC02	Ponar	25.0	Chironomus sp.	23	92.0	1840	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC02	Ponar	25.0	Cladopelma sp.	2	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC02	Ponar	25.0	Cryptochironomus sp.	25	100.0	2000	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC02	Ponar	25.0	Polypedilum halterale gr.	8	32.0	640	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC02	Ponar	25.0	Procladius sp.	22	88.0	1760	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC02	Ponar	25.0	Tanytarsus sp.	7	28.0	560	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC02	Ponar	25.0	Arcteonais lomondi	7	28.0	560	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC02	Ponar	25.0	Aulodrilus limnobius	49	196.0	3920	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC02	Ponar	25.0	Aulodrilus pigueti	32	128.0	2560	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC02	Ponar	25.0	Dero digitata	1	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC02	Ponar	25.0	Limnodrilus hoffmeisteri	134	536.0	10720	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC02	Ponar	25.0	Limnodrilus udekemianus	2	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC02	Ponar	25.0	Quistadrilus multisetosus	7	28.0	560	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC02	Ponar	25.0	Specaria josinae	4	16.0	320	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC02	Ponar	25.0	Tubificidae w/ cap setae	22	88.0	1760	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC02	Ponar	25.0	Corbicula sp.	8	32.0	640	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC02	Ponar	25.0	Sphaeriidae	22	88.0	1760	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC02	Ponar	25.0	Gammaridae	1	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC02	Ponar	25.0	Ostracoda	1	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC02	Ponar	25.0	Turbellaria	1	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Macromiidae	1	1.7	34	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Ancyronyx variegatus	1	1.7	34	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Chironomus sp.	40	68.6	1371	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Cladopelma sp.	1	1.7	34	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Cryptochironomus sp.	33	56.6	1131	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Dicrotendipes modestus	1	1.7	34	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Procladius sp.	8	13.7	274	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Tanytarsus sp.	9	15.4	309	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Arcteonais lomondi	20	34.3	686	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Aulodrilus limnobius	48	82.3	1646	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Aulodrilus pigueti	30	51.4	1029	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Dero digitata	5	8.6	171	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Limnodrilus hoffmeisteri	102	174.9	3497	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Quistadrilus multisetosus	4	6.9	137	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Specaria josinae	4	6.9	137	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Tubificidae w/ cap setae	25	42.9	857	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Corbicula sp.	9	15.4	309	0.05

Complete list of taxa and abundance data from the area above Dundee Dam (Windward, in prep) (collected 2012)

Event	Habitat	Reference Dataset	Location ID	Collection Date	Sample ID	Collection Method	Percent Subsampled	Lowest Practical Taxon	Abundance (raw)	Corrected abundance (to 100% of sample)	Abundance (per m2)	Sieve size
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Sphaeriidae	6	10.3	206	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Gammarus sp.	2	3.4	69	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Ostracoda	1	1.7	34	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Koenikea sp.	1	1.7	34	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Limnesia sp.	1	1.7	34	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18I	11-12-2012	UPRT18I-BC03	Ponar	58.3	Nematoda	5	8.6	171	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC01	Ponar	50.0	Chironomus sp.	124	248.0	4960	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC01	Ponar	50.0	Cryptochironomus sp.	2	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC01	Ponar	50.0	Arcteonais lomondi	7	14.0	280	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC01	Ponar	50.0	Aulodrilus limnobius	3	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC01	Ponar	50.0	Aulodrilus pigueti	6	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC01	Ponar	50.0	Dero digitata	5	10.0	200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC01	Ponar	50.0	Limnodrilus hoffmeisteri	172	344.0	6880	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC01	Ponar	50.0	Limnodrilus udekemianus	12	24.0	480	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC01	Ponar	50.0	Quistadrilus multisetosus	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC01	Ponar	50.0	Specaria josinae	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC01	Ponar	50.0	Stylaria lacustris	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC01	Ponar	50.0	Tubificidae w/ cap setae	12	24.0	480	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC01	Ponar	50.0	Physa sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC01	Ponar	50.0	Hyalella sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC01	Ponar	50.0	Turbellaria	2	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC01	Ponar	50.0	Nematoda	3	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC02	Ponar	45.8	Chironomus sp.	127	277.1	5542	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC02	Ponar	45.8	Cryptochironomus sp.	2	4.4	87	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC02	Ponar	45.8	Dicrotendipes sp.	1	2.2	44	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC02	Ponar	45.8	Parachironomus sp.	1	2.2	44	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC02	Ponar	45.8	Arcteonais lomondi	7	15.3	305	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC02	Ponar	45.8	Aulodrilus limnobius	3	6.5	131	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC02	Ponar	45.8	Aulodrilus pigueti	1	2.2	44	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC02	Ponar	45.8	Dero digitata	5	10.9	218	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC02	Ponar	45.8	Limnodrilus udekemianus	13	28.4	567	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC02	Ponar	45.8	Quistadrilus multisetosus	1	2.2	44	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC02	Ponar	45.8	Specaria josinae	5	10.9	218	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC02	Ponar	45.8	Tubificidae w/ cap setae	15	32.7	655	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC02	Ponar	45.8	Tubificidae w/o cap setae	134	292.4	5847	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC02	Ponar	45.8	Sphaeriidae	1	2.2	44	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC02	Ponar	45.8	Turbellaria	12	26.2	524	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC02	Ponar	45.8	Nematoda	1	2.2	44	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC03	Ponar	29.4	Coenagrionidae	2	6.8	136	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC03	Ponar	29.4	Chironomus sp.	106	360.4	7208	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC03	Ponar	29.4	Cryptochironomus sp.	3	10.2	204	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC03	Ponar	29.4	Arcteonais lomondi	11	37.4	748	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC03	Ponar	29.4	Aulodrilus limnobius	2	6.8	136	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC03	Ponar	29.4	Aulodrilus pigueti	1	3.4	68	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC03	Ponar	29.4	Dero digitata	5	17.0	340	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC03	Ponar	29.4	Limnodrilus hoffmeisteri	148	503.2	10064	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC03	Ponar	29.4	Limnodrilus udekemianus	12	40.8	816	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC03	Ponar	29.4	Specaria josinae	3	10.2	204	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC03	Ponar	29.4	Tubificidae w/ cap setae	20	68.0	1360	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC03	Ponar	29.4	Sphaeriidae	1	3.4	68	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC03	Ponar	29.4	Gammarus sp.	2	6.8	136	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC03	Ponar	29.4	Turbellaria	6	20.4	408	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18J	11-12-2012	UPRT18J-BC03	Ponar	29.4	Nematoda	1	3.4	68	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC01	Ponar	37.5	Chironomus sp.	48	128.0	2560	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC01	Ponar	37.5	Cladopelma sp.	2	5.3	107	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC01	Ponar	37.5	Cryptochironomus sp.	21	56.0	1120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC01	Ponar	37.5	Dicrotendipes neomodestus	3	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC01	Ponar	37.5	Einfeldia natchitocheae	2	5.3	107	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC01	Ponar	37.5	Polypedilum halterale gr.	1	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC01	Ponar	37.5	Procladius sp.	3	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC01	Ponar	37.5	Tanytarsus sp.	3	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC01	Ponar	37.5	Arcteonais lomondi	3	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC01	Ponar	37.5	Aulodrilus limnobius	33	88.0	1760	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC01	Ponar	37.5	Aulodrilus pigueti	31	82.7	1653	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC01	Ponar	37.5	Dero digitata	5	13.3	267	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC01	Ponar	37.5	Limnodrilus hoffmeisteri	160	426.7	8533	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC01	Ponar	37.5	Limnodrilus udekemianus	11	29.3	587	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC01	Ponar	37.5	Specaria josinae	1	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC01	Ponar	37.5	Tubificidae w/ cap setae	10	26.7	533	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC01	Ponar	37.5	Corbicula sp.	10	26.7	533	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC01	Ponar	37.5	Sphaeriidae	4	10.7	213	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC01	Ponar	37.5	Koenikea sp.	1	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC01	Ponar	37.5	Nematoda	1	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Hydroptilidae	1	1.6	32	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Chironomus sp.	63	100.8	2016	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Cladopelma sp.	2	3.2	64	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Cryptochironomus sp.	14	22.4	448	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Einfeldia natchitocheae	1	1.6	32	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Procladius sp.	2	3.2	64	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Tanypus sp.	1	1.6	32	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Procladius sp.	2	3.2	64	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Tanypus sp.	1	1.6	32	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Tanytarsini	1	1.6	32	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Arcteonais lomondi	1	1.6	32	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Aulodrilus limnobius	36	57.6	1152	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Aulodrilus pigueti	19	30.4	608	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Dero digitata	2	3.2	64	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Ilyodrilus templetoni	12	19.2	384	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Limnodrilus hoffmeisteri	162	259.2	5184	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Limnodrilus udekemianus	7	11.2	224	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Corbicula sp.	7	11.2	224	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Sphaeriidae	1	1.6	32	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Limnesia sp.	1	1.6	32	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Turbellaria	1	1.6	32	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC02	Ponar	62.5	Nematoda	1	1.6	32	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Hydroptila sp.	2	4.8	96	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Chironomus sp.	59	141.6	2832	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Cladopelma sp.	3	7.2	144	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Cricotopus bicinctus gr.	1	2.4	48	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Cryptochironomus sp.	31	74.4	1488	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Dicrotendipes modestus	1	2.4	48	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Polypedilum halterale gr.	11	26.4	528	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Procladius sp.	2	4.8	96	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Tanytarsus sp.	3	7.2	144	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Arcteonais lomondi	4	9.6	192	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Aulodrilus limnobius	85	204.0	4080	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Aulodrilus pigueti	41	98.4	1968	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Dero digitata	8	19.2	384	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Limnodrilus udekemianus	2	4.8	96	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Slavina appendiculata	5	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Specaria josinae	3	7.2	144	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Stylaria lacustris	2	4.8	96	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Tubificidae w/ cap setae	9	21.6	432	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Tubificidae w/o cap setae	88	211.2	4224	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Corbicula sp.	22	52.8	1056	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Sphaeriidae	3	7.2	144	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Gyraulus sp.	1	2.4	48	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Micromenetus sp.	1	2.4	48	0.05

Complete list of taxa and abundance data from the area above Dundee Dam (Windward, in prep) (collected 2012)

Event	Habitat	Reference Dataset	Location ID	Collection Date	Sample ID	Collection Method	Percent Subsampled	Lowest Practical Taxon	Abundance (raw)	Corrected abundance (to 100% of sample)	Abundance (per m2)	Sieve size
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Gammarus sp.	1	2.4	48	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Koenikea sp.	1	2.4	48	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT18K	11-12-2012	UPRT18K-BC03	Ponar	41.7	Turbellaria	2	4.8	96	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC01	Ponar	100.0	Chironomus sp.	46	46.0	920	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC01	Ponar	100.0	Cladopelma sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC01	Ponar	100.0	Cryptochironomus sp.	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC01	Ponar	100.0	Dicrotendipes modestus	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC01	Ponar	100.0	Procladius sp.	12	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC01	Ponar	100.0	Tanypus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC01	Ponar	100.0	Aulodrilus limnobius	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC01	Ponar	100.0	Limnodrilus hoffmeisteri	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC01	Ponar	100.0	Quistadrilus multisetosus	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC01	Ponar	100.0	Gammaridae	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC01	Ponar	100.0	Koenikea sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC01	Ponar	100.0	Oxus sp.	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC01	Ponar	100.0	Nematoda	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC02	Ponar	100.0	Chironomus sp.	11	11.0	220	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC02	Ponar	100.0	Procladius sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC02	Ponar	100.0	Tanytarsus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC02	Ponar	100.0	Tubificidae w/o cap setae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC03	Ponar	100.0	Chironomus sp.	33	33.0	660	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC03	Ponar	100.0	Cryptochironomus sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC03	Ponar	100.0	Dicrotendipes sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC03	Ponar	100.0	Procladius sp.	11	11.0	220	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC03	Ponar	100.0	Tanypus sp.	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC03	Ponar	100.0	Quistadrilus multisetosus	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC03	Ponar	100.0	Tubificidae w/o cap setae	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19J	11-13-2012	UPRT19J-BC03	Ponar	100.0	Oxus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Callibaetis sp.	1	2.4	48	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Hydroptila sp.	4	9.6	192	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Oxyethira sp.	1	2.4	48	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Chironomus sp.	5	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Cladopelma sp.	4	9.6	192	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Cryptochironomus sp.	2	4.8	96	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Dicrotendipes modestus	11	26.4	528	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Dicrotendipes neomodestus	6	14.4	288	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Nanocladius sp.	1	2.4	48	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Procladius sp.	25	60.0	1200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Tanypus sp.	4	9.6	192	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Tanytarsus sp.	12	28.8	576	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Helobdella elongata	5	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Arcteonais lomondi	14	33.6	672	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Aulodrilus limnobius	21	50.4	1008	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Aulodrilus pigueti	11	26.4	528	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Dero digitata	24	57.6	1152	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Ilyodrilus templetoni	32	76.8	1536	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Limnodrilus hoffmeisteri	108	259.2	5184	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Limnodrilus udekemianus	6	14.4	288	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Quistadrilus multisetosus	3	7.2	144	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Slavina appendiculata	33	79.2	1584	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Stylaria lacustris	4	9.6	192	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Corbicula sp.	1	2.4	48	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Sphaeriidae	3	7.2	144	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Ferrissia sp.	2	4.8	96	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Micromenetus sp.	9	21.6	432	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Gammarus sp.	1	2.4	48	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Koenikea sp.	2	4.8	96	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Oxus sp.	2	4.8	96	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Turbellaria	32	76.8	1536	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC01	Ponar	41.7	Nematoda	5	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Hydroptila sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Ablabesmyia sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Chironomus sp.	7	7.0	140	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Cladopelma sp.	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Cricotopus sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Cryptochironomus sp.	8	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Dicrotendipes modestus	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Dicrotendipes neomodestus	8	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Einfeldia natchitocheae	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Glyptotendipes sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Nanocladius sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Procladius sp.	9	9.0	180	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Tanytarsus sp.	11	11.0	220	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Alboglossiphonia heteroclita	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Helobdella elongata	7	7.0	140	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Arcteonais lomondi	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Aulodrilus limnobius	26	26.0	520	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Aulodrilus pigueti	12	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Chaetogaster diaphanus	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Dero digitata	14	14.0	280	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Limnodrilus hoffmeisteri	120	120.0	2400	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Limnodrilus udekemianus	12	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Quistadrilus multisetosus	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Slavina appendiculata	7	7.0	140	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Stylaria lacustris	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Tubificidae w/ cap setae	34	34.0	680	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Sphaeriidae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Ferrissia sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Micromenetus sp.	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Physa sp.	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Ostracoda	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Turbellaria	20	20.0	400	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC03	Ponar	100.0	Nematoda	13	13.0	260	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Hydroptila sp.	4	5.4	108	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Coenagrionidae	1	1.4	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Ablabesmyia sp.	1	1.4	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Chironomus sp.	10	13.5	271	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Cladopelma sp.	3	4.1	81	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Cryptochironomus sp.	16	21.7	434	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Dicrotendipes modestus	6	8.1	163	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Dicrotendipes neomodestus	5	6.8	135	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Einfeldia natchitocheae	5	6.8	135	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Polypedilum halterale gr.	2	2.7	54	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Procladius sp.	5	6.8	135	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Tanytarsus sp.	11	14.9	298	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Bezzia/Palpomyia sp.	1	1.4	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Helobdella elongata	1	1.4	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Arcteonais lomondi	3	4.1	81	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Aulodrilus limnobius	34	46.1	921	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Aulodrilus pigueti	9	12.2	244	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Dero digitata	3	4.1	81	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Limnodrilus hoffmeisteri	111	150.4	3008	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Limnodrilus udekemianus	10	13.5	271	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Quistadrilus multisetosus	4	5.4	108	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Slavina appendiculata	2	2.7	54	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Specaria josinae	2	2.7	54	0.05

Complete list of taxa and abundance data from the area above Dundee Dam (Windward, in prep) (collected 2012)

Event	Habitat	Reference Dataset	Location ID	Collection Date	Sample ID	Collection Method	Percent Subsampled	Lowest Practical Taxon	Abundance (raw)	Corrected abundance (to 100% of sample)	Abundance (per m2)	Sieve size
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Stylaria lacustris	3	4.1	81	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Tubificidae w/ cap setae	39	52.8	1057	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Corbicula sp.	1	1.4	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Sphaeriidae	3	4.1	81	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Ferrissia sp.	3	4.1	81	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Gyraulus sp.	5	6.8	135	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Micromenetus sp.	8	10.8	217	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Physa sp.	4	5.4	108	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Gammarus sp.	2	2.7	54	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Turbellaria	22	29.8	596	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19K	11-13-2012	UPRT19K-BC04	Ponar	73.8	Nematoda	8	10.8	217	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC02	Ponar	100.0	Chironomus sp.	14	14.0	280	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC02	Ponar	100.0	Cryptochironomus sp.	18	18.0	360	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC02	Ponar	100.0	Polypedilum halterale gr.	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC02	Ponar	100.0	Procladius sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC02	Ponar	100.0	Tanytarsus sp.	6	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC02	Ponar	100.0	Helobdella elongata	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC02	Ponar	100.0	Arcteonais lomondi	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC02	Ponar	100.0	Aulodrilus pigueti	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC02	Ponar	100.0	Ilyodrilus templetoni	7	7.0	140	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC02	Ponar	100.0	Limnodrilus hoffmeisteri	76	76.0	1520	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC02	Ponar	100.0	Limnodrilus udekemianus	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC02	Ponar	100.0	Corbicula sp.	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC02	Ponar	100.0	Gammarus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC02	Ponar	100.0	Turbellaria	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC02	Ponar	100.0	Nematoda	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Hydroptila sp.	4	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Oecetis sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Oxyethira sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Chironomus sp.	15	30.0	600	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Cladopelma sp.	3	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Cryptochironomus sp.	36	72.0	1440	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Cryptotendipes sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Dicrotendipes modestus	4	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Dicrotendipes neomodestus	3	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Polypedilum halterale gr.	28	56.0	1120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Procladius sp.	22	44.0	880	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Tanytarsus sp.	39	78.0	1560	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Ceratopogoninae	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Helobdella elongata	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Arcteonais lomondi	32	64.0	1280	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Aulodrilus limnobius	28	56.0	1120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Aulodrilus pigueti	73	146.0	2920	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Ilyodrilus templetoni	11	22.0	440	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Limnodrilus hoffmeisteri	57	114.0	2280	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Quistadrilus multisetosus	3	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Slavina appendiculata	5	10.0	200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Specaria josinae	3	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Tubificidae w/ cap setae	28	56.0	1120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Corbicula sp.	23	46.0	920	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Sphaeriidae	2	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Micromenetus sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Gammarus sp.	2	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Limnesia sp.	4	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Prostoma sp.	2	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC03	Ponar	50.0	Nematoda	4	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Hydroptila sp.	11	31.1	621	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Orthotrichia sp.	2	5.6	113	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Oxyethira sp.	1	2.8	56	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Dubiraphia sp.	1	2.8	56	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Chironomus sp.	20	56.5	1129	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Cladopelma sp.	5	14.1	282	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Cryptochironomus sp.	16	45.2	904	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Dicrotendipes modestus	10	28.2	565	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Dicrotendipes neomodestus	2	5.6	113	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Nanocladius sp.	3	8.5	169	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Polypedilum halterale gr.	5	14.1	282	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Procladius sp.	10	28.2	565	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Tanytarsus sp.	52	146.8	2936	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Helobdella elongata	1	2.8	56	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Arcteonais lomondi	45	127.1	2541	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Aulodrilus limnobius	21	59.3	1186	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Aulodrilus pigueti	42	118.6	2372	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Chaetogaster diaphanus	2	5.6	113	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Ilyodrilus templetoni	17	48.0	960	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Limnodrilus hoffmeisteri	94	265.4	5308	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Quistadrilus multisetosus	1	2.8	56	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Specaria josinae	1	2.8	56	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Stylaria lacustris	3	8.5	169	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Corbicula sp.	14	39.5	791	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Sphaeriidae	3	8.5	169	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Gyraulus sp.	1	2.8	56	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Micromenetus sp.	2	5.6	113	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Gammarus sp.	1	2.8	56	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Ostracoda	6	16.9	339	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Koenikea sp.	2	5.6	113	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Turbellaria	2	5.6	113	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19L	11-13-2012	UPRT19L-BC04	Ponar	35.4	Nematoda	3	8.5	169	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Oecetis sp.	1	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Ablabesmyia sp.	1	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Chironomus sp.	18	48.0	960	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Cladopelma sp.	1	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Cryptochironomus sp.	11	29.3	587	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Dicrotendipes sp.	1	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Polypedilum halterale gr.	13	34.7	693	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Procladius sp.	5	13.3	267	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Tanytarsus sp.	2	5.3	107	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Helobdella elongata	3	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Arcteonais lomondi	7	18.7	373	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Aulodrilus limnobius	20	53.3	1067	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Aulodrilus pigueti	70	186.7	3733	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Dero digitata	3	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Ilyodrilus templetoni	28	74.7	1493	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Limnodrilus hoffmeisteri	108	288.0	5760	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Quistadrilus multisetosus	13	34.7	693	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Slavina appendiculata	2	5.3	107	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Specaria josinae	6	16.0	320	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Corbicula sp.	2	5.3	107	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Sphaeriidae	1	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Oxus sp.	1	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC01	Ponar	37.5	Turbellaria	2	5.3	107	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Chironomus sp.	32	96.0	1920	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Cladopelma sp.	1	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Cryptochironomus sp.	3	9.0	180	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Polypedilum halterale gr.	10	30.0	600	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Procladius sp.	2	6.0	120	0.05

Complete list of taxa and abundance data from the area above Dundee Dam (Windward, in prep) (collected 2012)

Event	Habitat	Reference Dataset	Location ID	Collection Date	Sample ID	Collection Method	Percent Subsampled	Lowest Practical Taxon	Abundance (raw)	Corrected abundance (to 100% of sample)	Abundance (per m2)	Sieve size
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Tanypus sp.	1	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Tanytarsus sp.	5	15.0	300	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Arcteonais lomondi	27	81.0	1620	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Aulodrilus limnobius	29	87.0	1740	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Aulodrilus pigueti	64	192.0	3840	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Dero digitata	9	27.0	540	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Limnodrilus hoffmeisteri	61	183.0	3660	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Limnodrilus udekemianus	1	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Quistadrilus multisetosus	20	60.0	1200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Slavina appendiculata	4	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Specaria josinae	11	33.0	660	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Tubificidae w/ cap setae	32	96.0	1920	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Corbicula sp.	5	15.0	300	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Gammarus sp.	1	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Ostracoda	2	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Lebertia sp.	1	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Oxus sp.	1	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Turbellaria	2	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC02	Ponar	33.3	Prostoma sp.	2	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Hydroptilidae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Oecetis sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Ablabesmyia sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Chironomus sp.	21	21.0	420	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Cryptochironomus sp.	16	16.0	320	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Polypedilum halterale gr.	33	33.0	660	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Procladius sp.	10	10.0	200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Tanytarsus sp.	8	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Desserobdella phalera	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Helobdella elongata	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Arcteonais lomondi	31	31.0	620	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Aulodrilus limnobius	44	44.0	880	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Aulodrilus pigueti	98	98.0	1960	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Dero digitata	12	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Ilyodrilus templetoni	29	29.0	580	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Limnodrilus hoffmeisteri	80	80.0	1600	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Quistadrilus multisetosus	18	18.0	360	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Slavina appendiculata	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Specaria josinae	10	10.0	200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Corbicula sp.	17	17.0	340	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Sphaeriidae	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Micromenetus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Gammarus sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Turbellaria	6	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT19M	11-13-2012	UPRT19M-BC03	Ponar	100.0	Prostoma sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC01	Ponar	37.5	Hydroptila sp.	1	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC01	Ponar	37.5	Dubiraphia sp.	1	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC01	Ponar	37.5	Chironomus sp.	4	10.7	213	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC01	Ponar	37.5	Cladopelma sp.	2	5.3	107	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC01	Ponar	37.5	Clinotanypus sp.	1	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC01	Ponar	37.5	Cryptochironomus sp.	6	16.0	320	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC01	Ponar	37.5	Procladius sp.	117	312.0	6240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC01	Ponar	37.5	Tanytarsus sp.	4	10.7	213	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC01	Ponar	37.5	Helobdella elongata	1	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC01	Ponar	37.5	Arcteonais lomondi	9	24.0	480	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC01	Ponar	37.5	Aulodrilus limnobius	13	34.7	693	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC01	Ponar	37.5	Aulodrilus pigueti	46	122.7	2453	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC01	Ponar	37.5	Limnodrilus hoffmeisteri	26	69.3	1387	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC01	Ponar	37.5	Quistadrilus multisetosus	32	85.3	1707	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC01	Ponar	37.5	Specaria josinae	5	13.3	267	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC01	Ponar	37.5	Tubificidae w/ cap setae	9	24.0	480	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC01	Ponar	37.5	Corbicula sp.	27	72.0	1440	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC01	Ponar	37.5	Sphaeriidae	2	5.3	107	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC01	Ponar	37.5	Koenikea sp.	1	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC02	Ponar	75.0	Chironomus sp.	6	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC02	Ponar	75.0	Cladopelma sp.	3	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC02	Ponar	75.0	Cryptochironomus sp.	4	5.3	107	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC02	Ponar	75.0	Procladius sp.	146	194.7	3893	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC02	Ponar	75.0	Tanypus sp.	1	1.3	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC02	Ponar	75.0	Tanytarsus sp.	8	10.7	213	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC02	Ponar	75.0	Helobdella elongata	8	10.7	213	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC02	Ponar	75.0	Arcteonais lomondi	9	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC02	Ponar	75.0	Aulodrilus limnobius	16	21.3	427	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC02	Ponar	75.0	Aulodrilus pigueti	41	54.7	1093	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC02	Ponar	75.0	Limnodrilus hoffmeisteri	21	28.0	560	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC02	Ponar	75.0	Quistadrilus multisetosus	33	44.0	880	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC02	Ponar	75.0	Specaria josinae	8	10.7	213	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC02	Ponar	75.0	Tubificidae w/ cap setae	10	13.3	267	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC02	Ponar	75.0	Corbicula sp.	29	38.7	773	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC02	Ponar	75.0	Sphaeriidae	1	1.3	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC02	Ponar	75.0	Ostracoda	1	1.3	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC02	Ponar	75.0	Koenikea sp.	1	1.3	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC03	Ponar	100.0	Dubiraphia sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC03	Ponar	100.0	Chironomus sp.	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC03	Ponar	100.0	Cladopelma sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC03	Ponar	100.0	Cryptochironomus sp.	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC03	Ponar	100.0	Dicrotendipes sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC03	Ponar	100.0	Parametriocnemus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC03	Ponar	100.0	Procladius sp.	58	58.0	1160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC03	Ponar	100.0	Helobdella elongata	20	20.0	400	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC03	Ponar	100.0	Arcteonais lomondi	10	10.0	200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC03	Ponar	100.0	Aulodrilus limnobius	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC03	Ponar	100.0	Aulodrilus pigueti	17	17.0	340	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC03	Ponar	100.0	Limnodrilus hoffmeisteri	23	23.0	460	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC03	Ponar	100.0	Quistadrilus multisetosus	36	36.0	720	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC03	Ponar	100.0	Specaria josinae	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC03	Ponar	100.0	Tubificidae w/ cap setae	7	7.0	140	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC03	Ponar	100.0	Corbicula sp.	20	20.0	400	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC03	Ponar	100.0	Sphaeriidae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC03	Ponar	100.0	Gammarus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20A	11-13-2012	UPRT20A-BC03	Ponar	100.0	Caecidotea sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Hydroptilidae	2	8.7	175	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Chironomus sp.	10	43.6	873	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Cladopelma sp.	6	26.2	524	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Cryptochironomus sp.	4	17.5	349	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Larsia sp.	1	4.4	87	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Nanocladius sp.	2	8.7	175	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Polypedilum sp.	1	4.4	87	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Procladius sp.	71	309.8	6196	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Tanytarsus sp.	20	87.3	1745	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Arcteonais lomondi	19	82.9	1658	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Aulodrilus limnobius	20	87.3	1745	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Aulodrilus pigueti	58	253.1	5062	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Chaetogaster diaphanus	1	4.4	87	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Limnodrilus hoffmeisteri	120	523.6	10473	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Quistadrilus multisetosus	5	21.8	436	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Specaria josinae	3	13.1	262	0.05

Complete list of taxa and abundance data from the area above Dundee Dam (Windward, in prep) (collected 2012)

Event	Habitat	Reference Dataset	Location ID	Collection Date	Sample ID	Collection Method	Percent Subsampled	Lowest Practical Taxon	Abundance (raw)	Corrected abundance (to 100% of sample)	Abundance (per m2)	Sieve size
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Tubificidae w/ cap setae	36	157.1	3142	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Corbicula sp.	3	13.1	262	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Sphaeriidae	1	4.4	87	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Gammarus sp.	1	4.4	87	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Ostracoda	9	39.3	785	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Koenikea sp.	1	4.4	87	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Turbellaria	1	4.4	87	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC01	Ponar	22.9	Nematoda	4	17.5	349	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Hydroptila sp.	1	1.7	34	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Orthotrichia sp.	1	1.7	34	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Chironomus sp.	24	41.1	823	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Cladopelma sp.	1	1.7	34	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Cryptochironomus sp.	3	5.1	103	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Dicrotendipes modestus	2	3.4	69	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Nanocladius sp.	1	1.7	34	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Polypedilum halterale gr.	2	3.4	69	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Procladius sp.	11	18.9	377	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Tanytarsus sp.	9	15.4	309	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Ceratopogoninae	1	1.7	34	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Arcteonais lomondi	3	5.1	103	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Aulodrilus limnobius	22	37.7	754	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Aulodrilus pigueti	34	58.3	1166	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Ilyodrilus templetoni	20	34.3	686	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Limnodrilus hoffmeisteri	185	317.1	6343	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Quistadrilus multisetosus	2	3.4	69	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Slavina appendiculata	1	1.7	34	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Specaria josinae	2	3.4	69	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Corbicula sp.	3	5.1	103	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Sphaeriidae	1	1.7	34	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC03	Ponar	58.3	Nematoda	3	5.1	103	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Chironomus sp.	16	32.0	640	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Cladopelma sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Cryptochironomus sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Dicrotendipes modestus	2	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Parachironomus sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Procladius sp.	27	54.0	1080	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Tanypus sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Tanytarsus sp.	4	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Arcteonais lomondi	2	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Aulodrilus limnobius	22	44.0	880	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Aulodrilus pigueti	15	30.0	600	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Limnodrilus hoffmeisteri	158	316.0	6320	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Limnodrilus udekemianus	2	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Quistadrilus multisetosus	5	10.0	200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Slavina appendiculata	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Specaria josinae	3	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Tubificidae w/ cap setae	26	52.0	1040	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Corbicula sp.	9	18.0	360	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Sphaeriidae	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Micromenetus sp.	3	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Physa sp.	2	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Turbellaria	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20B	11-13-2012	UPRT20B-BC04	Ponar	50.0	Nematoda	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC01	Ponar	100.0	Cladopelma sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC01	Ponar	100.0	Procladius sp.	36	36.0	720	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC01	Ponar	100.0	Arcteonais lomondi	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC01	Ponar	100.0	Aulodrilus pigueti	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC01	Ponar	100.0	Limnodrilus hoffmeisteri	42	42.0	840	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC01	Ponar	100.0	Quistadrilus multisetosus	83	83.0	1660	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC01	Ponar	100.0	Slavina appendiculata	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC01	Ponar	100.0	Tubificidae w/ cap setae	19	19.0	380	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC01	Ponar	100.0	Sphaeriidae	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC01	Ponar	100.0	Micromenetus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC01	Ponar	100.0	Amphipoda	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC01	Ponar	100.0	Oxus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC01	Ponar	100.0	Turbellaria	7	7.0	140	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC02	Ponar	100.0	Chironomus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC02	Ponar	100.0	Cryptochironomus sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC02	Ponar	100.0	Procladius sp.	46	46.0	920	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC02	Ponar	100.0	Arcteonais lomondi	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC02	Ponar	100.0	Aulodrilus pigueti	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC02	Ponar	100.0	Ilyodrilus templetoni	33	33.0	660	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC02	Ponar	100.0	Limnodrilus hoffmeisteri	29	29.0	580	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC02	Ponar	100.0	Quistadrilus multisetosus	76	76.0	1520	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC02	Ponar	100.0	Turbellaria	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC03	Ponar	100.0	Oecetis sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC03	Ponar	100.0	Chironomus sp.	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC03	Ponar	100.0	Cladopelma sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC03	Ponar	100.0	Cryptochironomus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC03	Ponar	100.0	Dicrotendipes leucoscelis	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC03	Ponar	100.0	Cryptochironomus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC03	Ponar	100.0	Dicrotendipes leucoscelis	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC03	Ponar	100.0	Procladius sp.	40	40.0	800	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC03	Ponar	100.0	Tanypus sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC03	Ponar	100.0	Helobdella elongata	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC03	Ponar	100.0	Limnodrilus hoffmeisteri	33	33.0	660	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC03	Ponar	100.0	Quistadrilus multisetosus	86	86.0	1720	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC03	Ponar	100.0	Corbicula sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC03	Ponar	100.0	Pisidium sp.	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC03	Ponar	100.0	Physa sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC03	Ponar	100.0	Ostracoda	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20C	11-14-2012	UPRT20C-BC03	Ponar	100.0	Oxus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Hydroptila sp.	3	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Oecetis sp.	4	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Dubiraphia sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Chironomus sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Cladopelma sp.	3	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Cryptochironomus sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Dicrotendipes modestus	4	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Nanocladius sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Procladius sp.	49	98.0	1960	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Tanypus sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Tanytarsus sp.	9	18.0	360	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Desserobdella phalera	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Helobdella elongata	3	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Helobdella stagnalis	2	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Arcteonais lomondi	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Aulodrilus pigueti	2	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Limnodrilus hoffmeisteri	111	222.0	4440	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Quistadrilus multisetosus	60	120.0	2400	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Tubificidae w/ cap setae	20	40.0	800	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Corbicula sp.	16	32.0	640	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Pisidium sp.	4	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Micromenetus sp.	5	10.0	200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Physa sp.	7	14.0	280	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Valvata sp.	2	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Gammarus sp.	13	26.0	520	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Limnesia sp.	3	6.0	120	0.05

Complete list of taxa and abundance data from the area above Dundee Dam (Windward, in prep) (collected 2012)

Event	Habitat	Reference Dataset	Location ID	Collection Date	Sample ID	Collection Method	Percent Subsampled	Lowest Practical Taxon	Abundance (raw)	Corrected abundance (to 100% of sample)	Abundance (per m2)	Sieve size
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Oxus sp.	2	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Turbellaria	5	10.0	200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC01	Ponar	50.0	Nematoda	17	34.0	680	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Hydroptila sp.	2	2.8	56	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Oecetis sp.	2	2.8	56	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Cladopelma sp.	9	12.7	254	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Cryptochironomus sp.	4	5.6	113	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Dicrotendipes modestus	2	2.8	56	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Procladius sp.	59	83.3	1666	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Tanypus sp.	1	1.4	28	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Tanytarsus sp.	30	42.4	847	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Ceratopogoninae	1	1.4	28	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Desserobdella phalera	1	1.4	28	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Helobdella elongata	1	1.4	28	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Helobdella stagnalis	2	2.8	56	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Arcteonais lomondi	6	8.5	169	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Aulodrilus pigueti	11	15.5	311	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Limnodrilus claparedeianus	10	14.1	282	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Limnodrilus hoffmeisteri	62	87.5	1751	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Limnodrilus udekemianus	26	36.7	734	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Quistadrilus multisetosus	72	101.6	2033	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Stylaria lacustris	4	5.6	113	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Tubificidae w/ cap setae	26	36.7	734	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Corbicula sp.	10	14.1	282	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Sphaeriidae	7	9.9	198	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Micromenetus sp.	2	2.8	56	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Physa sp.	1	1.4	28	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Valvata bicarinata	4	5.6	113	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Gammarus sp.	2	2.8	56	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Koenikea sp.	1	1.4	28	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Limnesia sp.	1	1.4	28	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Oxus sp.	3	4.2	85	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Turbellaria	3	4.2	85	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC02	Ponar	70.8	Nematoda	31	43.8	875	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Hydroptila sp.	8	18.3	366	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Oecetis sp.	1	2.3	46	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Oxyethira sp.	1	2.3	46	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Coenagrionidae	1	2.3	46	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Dubiraphia sp.	1	2.3	46	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Cladopelma sp.	15	34.3	686	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Cricotopus bicinctus gr.	1	2.3	46	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Cryptochironomus sp.	2	4.6	91	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Dicrotendipes modestus	9	20.6	411	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Dicrotendipes neomodestus	1	2.3	46	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Nanocladius sp.	8	18.3	366	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Procladius sp.	25	57.1	1143	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Tanypus sp.	2	4.6	91	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Tanytarsus sp.	22	50.3	1006	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Helobdella elongata	1	2.3	46	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Helobdella stagnalis	1	2.3	46	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Arcteonais lomondi	2	4.6	91	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Aulodrilus pigueti	8	18.3	366	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Limnodrilus hoffmeisteri	107	244.6	4891	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Limnodrilus udekemianus	3	6.9	137	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Quistadrilus multisetosus	52	118.9	2377	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Stylaria lacustris	10	22.9	457	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Tubificidae w/ cap setae	37	84.6	1691	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Corbicula sp.	9	20.6	411	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Sphaeriidae	5	11.4	229	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Ferrissia sp.	1	2.3	46	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Gyraulus sp.	1	2.3	46	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Micromenetus sp.	10	22.9	457	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Physa sp.	1	2.3	46	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Valvata sp.	1	2.3	46	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Gammarus sp.	46	105.1	2103	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Ostracoda	1	2.3	46	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Limnesia sp.	1	2.3	46	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Neumania sp.	1	2.3	46	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Oxus sp.	1	2.3	46	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Turbellaria	19	43.4	869	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20D	11-14-2012	UPRT20D-BC03	Ponar	43.8	Nematoda	21	48.0	960	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Hydroptila sp.	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Oecetis sp.	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Dubiraphia sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Stenelmis sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Chironomus sp.	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Cladopelma sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Cryptochironomus sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Dicrotendipes modestus	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Polypedilum halterale gr.	7	7.0	140	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Dicrotendipes modestus	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Polypedilum halterale gr.	7	7.0	140	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Procladius sp.	13	13.0	260	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Tanytarsus sp.	6	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Helobdella elongata	12	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Arcteonais lomondi	18	18.0	360	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Aulodrilus limnobius	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Aulodrilus pigueti	8	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Limnodrilus hoffmeisteri	21	21.0	420	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Quistadrilus multisetosus	22	22.0	440	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Specaria josinae	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Tubificidae w/ cap setae	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Corbicula sp.	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Gammarus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Turbellaria	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC01	Ponar	100.0	Nematoda	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Hydroptila sp.	11	22.0	440	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Dubiraphia sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Chironomus sp.	4	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Cladopelma sp.	2	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Cryptochironomus sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Dicrotendipes modestus	11	22.0	440	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Dicrotendipes neomodestus	3	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Polypedilum halterale gr.	8	16.0	320	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Procladius sp.	31	62.0	1240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Tanytarsus sp.	14	28.0	560	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Helobdella elongata	15	30.0	600	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Arcteonais lomondi	51	102.0	2040	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Aulodrilus limnobius	9	18.0	360	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Aulodrilus pigueti	25	50.0	1000	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Ilyodrilus templetoni	7	14.0	280	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Limnodrilus hoffmeisteri	24	48.0	960	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Quistadrilus multisetosus	24	48.0	960	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Slavina appendiculata	7	14.0	280	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Specaria josinae	2	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Stylaria lacustris	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Corbicula sp.	2	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Sphaeriidae	1	2.0	40	0.05

Complete list of taxa and abundance data from the area above Dundee Dam (Windward, in prep) (collected 2012)

Event	Habitat	Reference Dataset	Location ID	Collection Date	Sample ID	Collection Method	Percent Subsampled	Lowest Practical Taxon	Abundance (raw)	Corrected abundance (to 100% of sample)	Abundance (per m2)	Sieve size
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Ferrissia sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Micromenetus sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Physa sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Gammarus sp.	29	58.0	1160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Caecidotea sp.	2	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Koenikea sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Turbellaria	15	30.0	600	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Prostoma sp.	2	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC02	Ponar	50.0	Nematoda	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC03	Ponar	100.0	Hydroptila sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC03	Ponar	100.0	Ablabesmyia sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC03	Ponar	100.0	Chironomus sp.	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC03	Ponar	100.0	Cryptochironomus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC03	Ponar	100.0	Dicrotendipes modestus	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC03	Ponar	100.0	Procladius sp.	8	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC03	Ponar	100.0	Tanytarsus sp.	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC03	Ponar	100.0	Helobdella elongata	9	9.0	180	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC03	Ponar	100.0	Arcteonais lomondi	6	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC03	Ponar	100.0	Aulodrilus limnobius	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC03	Ponar	100.0	Aulodrilus pigueti	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC03	Ponar	100.0	Quistadrilus multisetosus	11	11.0	220	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC03	Ponar	100.0	Tubificidae w/o cap setae	9	9.0	180	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC03	Ponar	100.0	Corbicula sp.	7	7.0	140	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20E	11-14-2012	UPRT20E-BC03	Ponar	100.0	Turbellaria	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Hydroptila sp.	7	7.7	155	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Oecetis sp.	4	4.4	88	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Chironomus sp.	24	26.5	531	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Cladopelma sp.	1	1.1	22	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Dicrotendipes modestus	14	15.5	309	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Nanocladius sp.	1	1.1	22	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Polypedilum halterale gr.	5	5.5	111	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Procladius sp.	61	67.4	1348	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Tanytarsus sp.	1	1.1	22	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Desserobdella phalera	1	1.1	22	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Arcteonais lomondi	17	18.8	376	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Aulodrilus limnobius	20	22.1	442	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Aulodrilus pigueti	7	7.7	155	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Dero digitata	1	1.1	22	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Limnodrilus hoffmeisteri	81	89.5	1791	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Quistadrilus multisetosus	10	11.1	221	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Stylaria lacustris	1	1.1	22	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Tubificidae w/ cap setae	8	8.8	177	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Corbicula sp.	13	14.4	287	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Sphaeriidae	9	9.9	199	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Ferrissia sp.	1	1.1	22	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Gyraulus sp.	13	14.4	287	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Micromenetus sp.	14	15.5	309	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Physa sp.	1	1.1	22	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Gammarus sp.	6	6.6	133	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Ostracoda	10	11.1	221	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Koenikea sp.	3	3.3	66	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Limnesia sp.	7	7.7	155	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Turbellaria	13	14.4	287	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Prostoma sp.	2	2.2	44	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC01	Ponar	90.5	Nematoda	5	5.5	111	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Hydroptila sp.	7	10.7	214	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Oecetis sp.	3	4.6	92	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Coenagrionidae	1	1.5	31	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Corixidae	1	1.5	31	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Chironomus sp.	12	18.3	367	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Cladopelma sp.	2	3.1	61	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Dicrotendipes modestus	18	27.5	550	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Nanocladius sp.	5	7.6	153	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Polypedilum halterale gr.	10	15.3	305	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Procladius sp.	35	53.5	1069	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Tanytarsus sp.	4	6.1	122	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Arcteonais lomondi	17	26.0	519	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Aulodrilus limnobius	55	84.0	1680	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Aulodrilus pigueti	28	42.8	855	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Ilyodrilus templetoni	26	39.7	794	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Limnodrilus hoffmeisteri	82	125.2	2505	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Quistadrilus multisetosus	5	7.6	153	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Slavina appendiculata	2	3.1	61	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Stylaria lacustris	1	1.5	31	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Corbicula sp.	6	9.2	183	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Pisidium sp.	3	4.6	92	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Ferrissia sp.	1	1.5	31	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Gyraulus sp.	9	13.7	275	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Micromenetus sp.	6	9.2	183	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Physa sp.	2	3.1	61	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Gammarus sp.	25	38.2	764	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Limnesia sp.	3	4.6	92	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Turbellaria	27	41.2	825	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC02	Ponar	65.5	Prostoma sp.	1	1.5	31	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Hydroptila sp.	16	18.7	373	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Oecetis sp.	7	8.2	163	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Chironomus sp.	26	30.3	607	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Cladopelma sp.	1	1.2	23	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Dicrotendipes fumidus	14	16.3	327	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Nanocladius sp.	7	8.2	163	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Polypedilum halterale gr.	2	2.3	47	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Procladius sp.	44	51.3	1027	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Tanytarsus sp.	3	3.5	70	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Helobdella stagnalis	1	1.2	23	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Arcteonais lomondi	7	8.2	163	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Aulodrilus limnobius	22	25.7	513	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Aulodrilus pigueti	7	8.2	163	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Limnodrilus hoffmeisteri	56	65.3	1307	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Quistadrilus multisetosus	10	11.7	233	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Slavina appendiculata	1	1.2	23	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Stylaria lacustris	1	1.2	23	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Tubificidae w/ cap setae	8	9.3	187	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Corbicula sp.	5	5.8	117	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Pisidium sp.	4	4.7	93	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Gyraulus sp.	7	8.2	163	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Micromenetus sp.	21	24.5	490	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Physa sp.	2	2.3	47	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Gammarus sp.	35	40.8	817	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Koenikea sp.	3	3.5	70	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Limnesia sp.	3	3.5	70	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Oxus sp.	1	1.2	23	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Turbellaria	2	2.3	47	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20F	11-14-2012	UPRT20F-BC03	Ponar	85.7	Prostoma sp.	2	2.3	47	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC01	Ponar	50.0	Dubiraphia sp.	2	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC01	Ponar	50.0	Chironomus sp.	31	62.0	1240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC01	Ponar	50.0	Cryptochironomus sp.	5	10.0	200	0.05

Complete list of taxa and abundance data from the area above Dundee Dam (Windward, in prep) (collected 2012)

Event	Habitat	Reference Dataset	Location ID	Collection Date	Sample ID	Collection Method	Percent Subsampled	Lowest Practical Taxon	Abundance (raw)	Corrected abundance (to 100% of sample)	Abundance (per m2)	Sieve size
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC01	Ponar	50.0	Procladius sp.	9	18.0	360	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC01	Ponar	50.0	Arcteonais lomondi	12	24.0	480	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC01	Ponar	50.0	Aulodrilus limnobius	27	54.0	1080	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC01	Ponar	50.0	Aulodrilus pigueti	42	84.0	1680	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC01	Ponar	50.0	Dero digitata	5	10.0	200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC01	Ponar	50.0	Ilyodrilus templetoni	14	28.0	560	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC01	Ponar	50.0	Limnodrilus hoffmeisteri	114	228.0	4560	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC01	Ponar	50.0	Limnodrilus udekemianus	3	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC01	Ponar	50.0	Quistadrilus multisetosus	45	90.0	1800	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC01	Ponar	50.0	Slavina appendiculata	11	22.0	440	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC01	Ponar	50.0	Specaria josinae	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC01	Ponar	50.0	Corbicula sp.	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC01	Ponar	50.0	Nematoda	1	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Dubiraphia sp.	2	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Chironomus sp.	11	14.7	293	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Cladopelma sp.	1	1.3	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Cryptochironomus sp.	1	1.3	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Polypedilum halterale gr.	1	1.3	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Procladius sp.	23	30.7	613	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Arcteonais lomondi	15	20.0	400	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Aulodrilus limnobius	20	26.7	533	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Aulodrilus pigueti	30	40.0	800	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Dero digitata	5	6.7	133	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Limnodrilus hoffmeisteri	118	157.3	3147	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Limnodrilus udekemianus	30	40.0	800	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Quistadrilus multisetosus	16	21.3	427	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Slavina appendiculata	26	34.7	693	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Specaria josinae	1	1.3	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Tubificidae w/ cap setae	20	26.7	533	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Gammarus sp.	2	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Koenikea sp.	2	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Oxus sp.	1	1.3	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Turbellaria	2	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Prostoma sp.	3	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC02	Ponar	75.0	Nematoda	1	1.3	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC03	Ponar	25.0	Chironomus sp.	11	44.0	880	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC03	Ponar	25.0	Cladopelma sp.	1	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC03	Ponar	25.0	Cryptochironomus sp.	2	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC03	Ponar	25.0	Dicrotendipes modestus	1	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC03	Ponar	25.0	Polypedilum halterale gr.	3	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC03	Ponar	25.0	Procladius sp.	12	48.0	960	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC03	Ponar	25.0	Arcteonais lomondi	11	44.0	880	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC03	Ponar	25.0	Aulodrilus limnobius	30	120.0	2400	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC03	Ponar	25.0	Aulodrilus pigueti	56	224.0	4480	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC03	Ponar	25.0	Dero digitata	3	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC03	Ponar	25.0	Ilyodrilus templetoni	35	140.0	2800	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC03	Ponar	25.0	Limnodrilus hoffmeisteri	123	492.0	9840	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC03	Ponar	25.0	Limnodrilus udekemianus	1	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC03	Ponar	25.0	Quistadrilus multisetosus	13	52.0	1040	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC03	Ponar	25.0	Slavina appendiculata	18	72.0	1440	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC03	Ponar	25.0	Specaria josinae	8	32.0	640	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC03	Ponar	25.0	Pisidium sp.	1	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC03	Ponar	25.0	Prostoma sp.	1	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT20G	11-14-2012	UPRT20G-BC03	Ponar	25.0	Nematoda	1	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC01	Ponar	31.3	Hydroptila sp.	1	3.2	64	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC01	Ponar	31.3	Chironomus sp.	35	112.0	2240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC01	Ponar	31.3	Cryptochironomus sp.	2	6.4	128	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC01	Ponar	31.3	Polypedilum halterale gr.	4	12.8	256	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC01	Ponar	31.3	Procladius sp.	4	12.8	256	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC01	Ponar	31.3	Tanytarsus sp.	2	6.4	128	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC01	Ponar	31.3	Arcteonais lomondi	3	9.6	192	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC01	Ponar	31.3	Aulodrilus limnobius	53	169.6	3392	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC01	Ponar	31.3	Aulodrilus pigueti	77	246.4	4928	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC01	Ponar	31.3	Ilyodrilus templetoni	5	16.0	320	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC01	Ponar	31.3	Quistadrilus multisetosus	9	28.8	576	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC01	Ponar	31.3	Slavina appendiculata	11	35.2	704	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC01	Ponar	31.3	Specaria josinae	17	54.4	1088	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC01	Ponar	31.3	Tubificidae w/o cap setae	102	326.4	6528	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC01	Ponar	31.3	Sphaeriidae	1	3.2	64	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC01	Ponar	31.3	Gammarus sp.	2	6.4	128	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC01	Ponar	31.3	Ostracoda	13	41.6	832	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC01	Ponar	31.3	Turbellaria	4	12.8	256	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC01	Ponar	31.3	Prostoma sp.	2	6.4	128	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC01	Ponar	31.3	Nematoda	3	9.6	192	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Chironomus sp.	29	29.0	580	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Cryptochironomus sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Dicrotendipes sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Phaenopsectra sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Polypedilum halterale gr.	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Arcteonais lomondi	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Polypedilum halterale gr.	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Arcteonais lomondi	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Aulodrilus limnobius	46	46.0	920	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Aulodrilus pigueti	46	46.0	920	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Ilyodrilus templetoni	11	11.0	220	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Limnodrilus hoffmeisteri	46	46.0	920	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Limnodrilus udekemianus	70	70.0	1400	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Quistadrilus multisetosus	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Slavina appendiculata	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Specaria josinae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Corbicula sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Pisidium sp.	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Lymnaeidae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Gammarus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Ostracoda	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Turbellaria	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Prostoma sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC02	Ponar	100.0	Nematoda	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Chironomus sp.	11	11.0	220	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Cryptochironomus sp.	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Polypedilum halterale gr.	7	7.0	140	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Procladius sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Tanytarsus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Arcteonais lomondi	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Aulodrilus limnobius	50	50.0	1000	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Aulodrilus pigueti	54	54.0	1080	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Dero digitata	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Enchytraeidae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Ilyodrilus templetoni	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Limnodrilus hoffmeisteri	44	44.0	880	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Limnodrilus udekemianus	44	44.0	880	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Quistadrilus multisetosus	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Slavina appendiculata	18	18.0	360	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Specaria josinae	24	24.0	480	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Sphaeriidae	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Ostracoda	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Koenikea sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Turbellaria	2	2.0	40	0.05

Complete list of taxa and abundance data from the area above Dundee Dam (Windward, in prep) (collected 2012)

Event	Habitat	Reference Dataset	Location ID	Collection Date	Sample ID	Collection Method	Percent Subsampled	Lowest Practical Taxon	Abundance (raw)	Corrected abundance (to 100% of sample)	Abundance (per m2)	Sieve size
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21A	11-14-2012	UPRT21A-BC03	Ponar	100.0	Prostoma sp.	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC01	Ponar	73.8	Hydroptila sp.	2	2.7	54	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC01	Ponar	73.8	Dubiraphia sp.	3	4.1	81	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC01	Ponar	73.8	Chironomus sp.	6	8.1	163	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC01	Ponar	73.8	Nanocladius sp.	1	1.4	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC01	Ponar	73.8	Procladius sp.	30	40.6	813	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC01	Ponar	73.8	Arcteonais lomondi	3	4.1	81	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC01	Ponar	73.8	Aulodrilus pigueti	1	1.4	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC01	Ponar	73.8	Dero digitata	5	6.8	135	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC01	Ponar	73.8	Enchytraeidae	1	1.4	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC01	Ponar	73.8	Ilyodrilus templetoni	12	16.3	325	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC01	Ponar	73.8	Limnodrilus hoffmeisteri	211	285.9	5717	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC01	Ponar	73.8	Quistadrilus multisetosus	81	109.7	2195	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC01	Ponar	73.8	Slavina appendiculata	22	29.8	596	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC01	Ponar	73.8	Stylaria lacustris	1	1.4	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC01	Ponar	73.8	Gammarus sp.	1	1.4	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC01	Ponar	73.8	Ostracoda	14	19.0	379	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC01	Ponar	73.8	Oribatei	3	4.1	81	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC01	Ponar	73.8	Nematoda	2	2.7	54	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Hydroptila sp.	5	9.1	183	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Dubiraphia sp.	2	3.7	73	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Stenelmis sp.	1	1.8	37	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Chironomus sp.	6	11.0	219	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Dicrotendipes modestus	1	1.8	37	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Procladius sp.	16	29.2	584	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Arcteonais lomondi	3	5.5	110	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Aulodrilus pigueti	3	5.5	110	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Dero digitata	6	11.0	219	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Limnodrilus hoffmeisteri	135	246.5	4930	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Quistadrilus multisetosus	137	250.2	5003	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Slavina appendiculata	13	23.7	475	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Tubificidae w/ cap setae	2	3.7	73	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Corbicula sp.	1	1.8	37	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Sphaeriidae	1	1.8	37	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Gammarus sp.	8	14.6	292	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Sphaeriidae	1	1.8	37	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Gammarus sp.	8	14.6	292	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Ostracoda	2	3.7	73	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Lebertia sp.	1	1.8	37	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC02	Ponar	54.8	Turbellaria	3	5.5	110	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC03	Ponar	20.8	Dubiraphia sp.	1	4.8	96	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC03	Ponar	20.8	Chironomus sp.	4	19.2	384	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC03	Ponar	20.8	Dicrotendipes modestus	1	4.8	96	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC03	Ponar	20.8	Procladius sp.	20	96.0	1920	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC03	Ponar	20.8	Desserobdella phalera	1	4.8	96	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC03	Ponar	20.8	Arcteonais lomondi	1	4.8	96	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC03	Ponar	20.8	Aulodrilus pigueti	4	19.2	384	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC03	Ponar	20.8	Dero digitata	5	24.0	480	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC03	Ponar	20.8	Ilyodrilus templetoni	21	100.8	2016	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC03	Ponar	20.8	Limnodrilus hoffmeisteri	201	964.8	19296	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC03	Ponar	20.8	Limnodrilus udekemianus	3	14.4	288	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC03	Ponar	20.8	Quistadrilus multisetosus	41	196.8	3936	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC03	Ponar	20.8	Slavina appendiculata	11	52.8	1056	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC03	Ponar	20.8	Gammarus sp.	1	4.8	96	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC03	Ponar	20.8	Ostracoda	11	52.8	1056	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC03	Ponar	20.8	Oribatei	1	4.8	96	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21B	11-15-2012	UPRT21B-BC03	Ponar	20.8	Turbellaria	3	14.4	288	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Hydroptila sp.	1	2.5	51	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Oecetis sp.	8	20.2	404	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Coenagrionidae	2	5.1	101	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Dubiraphia sp.	8	20.2	404	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Dicrotendipes modestus	1	2.5	51	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Nanocladius sp.	5	12.6	253	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Procladius sp.	81	204.6	4093	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Desserobdella phalera	2	5.1	101	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Helobdella elongata	2	5.1	101	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Helobdella stagnalis	3	7.6	152	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Arcteonais lomondi	57	144.0	2880	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Aulodrilus limnobius	3	7.6	152	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Aulodrilus pigueti	12	30.3	606	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Dero digitata	4	10.1	202	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Limnodrilus hoffmeisteri	57	144.0	2880	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Limnodrilus sp.	16	40.4	808	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Quistadrilus multisetosus	15	37.9	758	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Slavina appendiculata	6	15.2	303	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Specaria josinae	2	5.1	101	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Stylaria lacustris	2	5.1	101	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Tubificidae w/ cap setae	10	25.3	505	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Corbicula sp.	6	15.2	303	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Sphaeriidae	12	30.3	606	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Ferrissia sp.	3	7.6	152	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Gyraulus sp.	4	10.1	202	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Ferrissia sp.	3	7.6	152	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Gyraulus sp.	4	10.1	202	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Micromenetus sp.	2	5.1	101	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Physa sp.	1	2.5	51	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Gammarus sp.	18	45.5	909	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Caecidotea sp.	4	10.1	202	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Ostracoda	4	10.1	202	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Koenikea sp.	1	2.5	51	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Limnesia sp.	1	2.5	51	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Oxus sp.	1	2.5	51	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Turbellaria	15	37.9	758	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Prostoma sp.	13	32.8	657	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC01	Ponar	39.6	Nematoda	2	5.1	101	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Hydroptila sp.	10	15.0	300	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Oecetis sp.	7	10.5	210	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Dubiraphia sp.	7	10.5	210	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Chironomus sp.	3	4.5	90	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Dicrotendipes modestus	1	1.5	30	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Glyptotendipes sp.	3	4.5	90	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Nanocladius sp.	1	1.5	30	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Polypedilum halterale gr.	4	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Procladius sp.	73	109.5	2190	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Stenochironomus sp.	6	9.0	180	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Desserobdella phalera	1	1.5	30	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Helobdella elongata	12	18.0	360	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Arcteonais lomondi	83	124.5	2490	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Aulodrilus pigueti	19	28.5	570	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Dero digitata	9	13.5	270	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Limnodrilus hoffmeisteri	44	66.0	1320	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Quistadrilus multisetosus	23	34.5	690	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Slavina appendiculata	10	15.0	300	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Specaria josinae	1	1.5	30	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Stylaria lacustris	2	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Tubificidae w/ cap setae	18	27.0	540	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Corbicula sp.	11	16.5	330	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Pisidium sp.	11	16.5	330	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Ferrissia sp.	2	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Gyraulus sp.	3	4.5	90	0.05

Complete list of taxa and abundance data from the area above Dundee Dam (Windward, in prep) (collected 2012)

Event	Habitat	Reference Dataset	Location ID	Collection Date	Sample ID	Collection Method	Percent Subsampled	Lowest Practical Taxon	Abundance (raw)	Corrected abundance (to 100% of sample)	Abundance (per m2)	Sieve size
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Lymnaeidae	1	1.5	30	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Micromenetus sp.	1	1.5	30	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Physa sp.	1	1.5	30	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Gammarus sp.	2	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Caecidotea sp.	3	4.5	90	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Koenikea sp.	1	1.5	30	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Limnesia sp.	1	1.5	30	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Oxus sp.	1	1.5	30	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Turbellaria	16	24.0	480	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC02	Ponar	66.7	Prostoma sp.	2	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Hydroptila sp.	7	7.0	140	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Oecetis sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Dubiraphia sp.	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Dicrotendipes neomodestus	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Polypedilum halterale gr.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Procladius sp.	30	30.0	600	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Erpobdella sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Helobdella elongata	6	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Helobdella stagnalis	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Arcteonais lomondi	14	14.0	280	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Aulodrilus pigueti	6	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Dero digitata	11	11.0	220	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Limnodrilus hoffmeisteri	34	34.0	680	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Quistadrilus multisetosus	14	14.0	280	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Slavina appendiculata	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Stylaria lacustris	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Tubificidae w/ cap setae	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Corbicula sp.	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Sphaeriidae	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Gyraulus sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Micromenetus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Physa sp.	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Koenikea sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Neumania sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Turbellaria	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21C	11-15-2012	UPRT21C-BC03	Ponar	100.0	Prostoma sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Hydropsyche sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Hydroptila sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Dubiraphia sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Stenelmis sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Chironomus sp.	7	7.0	140	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Dicrotendipes modestus	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Procladius sp.	40	40.0	800	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Helobdella elongata	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Arcteonais lomondi	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Aulodrilus limnobius	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Aulodrilus pigueti	12	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Limnodrilus hoffmeisteri	36	36.0	720	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Quistadrilus multisetosus	46	46.0	920	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Slavina appendiculata	12	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Tubificidae w/ cap setae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Corbicula sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Sphaeriidae	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Gammarus sp.	12	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Turbellaria	16	16.0	320	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Prostoma sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC01	Ponar	100.0	Nematoda	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC02	Ponar	75.0	Chironomus sp.	5	6.7	133	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC02	Ponar	75.0	Procladius sp.	15	20.0	400	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC02	Ponar	75.0	Helobdella elongata	32	42.7	853	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC02	Ponar	75.0	Arcteonais lomondi	10	13.3	267	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC02	Ponar	75.0	Aulodrilus limnobius	16	21.3	427	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC02	Ponar	75.0	Aulodrilus pigueti	31	41.3	827	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC02	Ponar	75.0	Dero digitata	4	5.3	107	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC02	Ponar	75.0	Limnodrilus hoffmeisteri	70	93.3	1867	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC02	Ponar	75.0	Nais sp.	1	1.3	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC02	Ponar	75.0	Quistadrilus multisetosus	65	86.7	1733	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC02	Ponar	75.0	Slavina appendiculata	48	64.0	1280	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC02	Ponar	75.0	Specaria josinae	1	1.3	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC02	Ponar	75.0	Tubificidae w/ cap setae	6	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC02	Ponar	75.0	Corbicula sp.	2	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC02	Ponar	75.0	Sphaeriidae	1	1.3	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC02	Ponar	75.0	Gammarus sp.	1	1.3	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC02	Ponar	75.0	Ostracoda	5	6.7	133	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC02	Ponar	75.0	Turbellaria	4	5.3	107	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC02	Ponar	75.0	Prostoma sp.	2	2.7	53	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC02	Ponar	75.0	Nematoda	1	1.3	27	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Hydroptila sp.	1	3.4	69	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Dubiraphia sp.	1	3.4	69	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Chironomus sp.	5	17.1	343	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Cladopelma sp.	1	3.4	69	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Dicrotendipes modestus	1	3.4	69	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Procladius sp.	20	68.6	1371	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Tanytarsus sp.	1	3.4	69	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Helobdella elongata	17	58.3	1166	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Arcteonais lomondi	4	13.7	274	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Aulodrilus limnobius	13	44.6	891	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Aulodrilus pigueti	33	113.1	2263	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Dero digitata	4	13.7	274	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Limnodrilus hoffmeisteri	40	137.1	2743	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Quistadrilus multisetosus	53	181.7	3634	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Slavina appendiculata	189	648.0	12960	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Specaria josinae	1	3.4	69	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Tubificidae w/ cap setae	1	3.4	69	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Corbicula sp.	3	10.3	206	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Gammarus sp.	3	10.3	206	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Ostracoda	2	6.9	137	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Arrenurus sp.	1	3.4	69	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Turbellaria	7	24.0	480	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21D	11-15-2012	UPRT21D-BC03	Ponar	29.2	Nematoda	1	3.4	69	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC01	Ponar	100.0	Chironomus sp.	68	68.0	1360	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC01	Ponar	100.0	Cryptochironomus sp.	9	9.0	180	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC01	Ponar	100.0	Polypedilum halterale gr.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC01	Ponar	100.0	Arcteonais lomondi	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC01	Ponar	100.0	Aulodrilus limnobius	60	60.0	1200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC01	Ponar	100.0	Aulodrilus pigueti	41	41.0	820	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC01	Ponar	100.0	Limnodrilus hoffmeisteri	146	146.0	2920	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC01	Ponar	100.0	Naididae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC01	Ponar	100.0	Quistadrilus multisetosus	10	10.0	200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC01	Ponar	100.0	Slavina appendiculata	9	9.0	180	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC01	Ponar	100.0	Specaria josinae	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC01	Ponar	100.0	Tubificidae w/ cap setae	6	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC01	Ponar	100.0	Ferrissia sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC01	Ponar	100.0	Planorbidae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC01	Ponar	100.0	Gammarus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC01	Ponar	100.0	Ostracoda	1	1.0	20	0.05

Complete list of taxa and abundance data from the area above Dundee Dam (Windward, in prep) (collected 2012)

Event	Habitat	Reference Dataset	Location ID	Collection Date	Sample ID	Collection Method	Percent Subsampled	Lowest Practical Taxon	Abundance (raw)	Corrected abundance (to 100% of sample)	Abundance (per m2)	Sieve size
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC01	Ponar	100.0	Oxus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC01	Ponar	100.0	Prostoma sp.	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC01	Ponar	100.0	Nematoda	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC02	Ponar	100.0	Chironomus sp.	21	21.0	420	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC02	Ponar	100.0	Cryptochironomus sp.	6	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC02	Ponar	100.0	Polypedilum scalaenum gr.	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC02	Ponar	100.0	Arcteonais lomondi	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC02	Ponar	100.0	Aulodrilus limnobius	51	51.0	1020	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC02	Ponar	100.0	Aulodrilus pigueti	34	34.0	680	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC02	Ponar	100.0	Limnodrilus hoffmeisteri	117	117.0	2340	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC02	Ponar	100.0	Quistadrilus multisetosus	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC02	Ponar	100.0	Slavina appendiculata	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC02	Ponar	100.0	Specaria josinae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC02	Ponar	100.0	Tubificidae w/ cap setae	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC02	Ponar	100.0	Corbicula sp.	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC02	Ponar	100.0	Ostracoda	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC02	Ponar	100.0	Prostoma sp.	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC03	Ponar	100.0	Chironomus sp.	54	54.0	1080	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC03	Ponar	100.0	Cryptochironomus sp.	10	10.0	200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC03	Ponar	100.0	Polypedilum halterale gr.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC03	Ponar	100.0	Arcteonais lomondi	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC03	Ponar	100.0	Aulodrilus limnobius	58	58.0	1160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC03	Ponar	100.0	Aulodrilus pigueti	69	69.0	1380	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC03	Ponar	100.0	Dero digitata	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC03	Ponar	100.0	Limnodrilus hoffmeisteri	110	110.0	2200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC03	Ponar	100.0	Quistadrilus multisetosus	10	10.0	200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC03	Ponar	100.0	Slavina appendiculata	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC03	Ponar	100.0	Tubificidae w/ cap setae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC03	Ponar	100.0	Corbicula sp.	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC03	Ponar	100.0	Sphaeriidae	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC03	Ponar	100.0	Gammarus sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC03	Ponar	100.0	Ostracoda	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC03	Ponar	100.0	Turbellaria	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21E	11-15-2012	UPRT21E-BC03	Ponar	100.0	Prostoma sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Hydroptila sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Hydroptila sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Oecetis sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Dubiraphia sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Chironomus sp.	27	27.0	540	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Dicrotendipes sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Procladius sp.	20	20.0	400	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Tanytarsini	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Helobdella elongata	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Arcteonais lomondi	6	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Aulodrilus limnobius	12	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Aulodrilus pigueti	44	44.0	880	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Dero digitata	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Limnodrilus hoffmeisteri	118	118.0	2360	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Limnodrilus udekemianus	8	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Quistadrilus multisetosus	13	13.0	260	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Tubificidae w/ cap setae	11	11.0	220	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Corbicula sp.	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Sphaeriidae	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Lymnaeidae	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Planorbidae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Gammarus sp.	11	11.0	220	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Caecidotea sp.	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Ostracoda	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Koenikea sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Limnesia sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Oxus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Turbellaria	10	10.0	200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC01	Ponar	100.0	Nematoda	9	9.0	180	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Hydroptila sp.	3	11.2	224	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Oecetis sp.	1	3.7	75	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Oxyethira sp.	1	3.7	75	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Dubiraphia sp.	2	7.5	149	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Stenelmis sp.	1	3.7	75	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Chironomus sp.	12	44.8	896	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Cladopelma sp.	1	3.7	75	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Cryptochironomus sp.	1	3.7	75	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Polypedilum halterale gr.	4	14.9	299	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Procladius sp.	8	29.9	597	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Arcteonais lomondi	9	33.6	672	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Aulodrilus limnobius	35	130.7	2613	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Aulodrilus pigueti	107	399.5	7989	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Dero digitata	1	3.7	75	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Ilyodrilus templetoni	15	56.0	1120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Limnodrilus hoffmeisteri	122	455.5	9109	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Limnodrilus udekemianus	2	7.5	149	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Quistadrilus multisetosus	12	44.8	896	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Slavina appendiculata	2	7.5	149	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Specaria josinae	1	3.7	75	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Corbicula sp.	2	7.5	149	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Sphaeriidae	6	22.4	448	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Lymnaeidae	3	11.2	224	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Micromenetus sp.	1	3.7	75	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Gammarus sp.	1	3.7	75	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Ostracoda	9	33.6	672	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Koenikea sp.	1	3.7	75	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Turbellaria	19	70.9	1419	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Prostoma sp.	1	3.7	75	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC02	Ponar	26.8	Nematoda	2	7.5	149	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Stenacron sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Hydroptila sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Dubiraphia sp.	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Ablabesmyia mallochi	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Chironomus sp.	14	14.0	280	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Cryptochironomus sp.	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Procladius sp.	10	10.0	200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Arcteonais lomondi	11	11.0	220	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Aulodrilus limnobius	28	28.0	560	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Aulodrilus pigueti	78	78.0	1560	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Ilyodrilus templetoni	19	19.0	380	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Limnodrilus hoffmeisteri	104	104.0	2080	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Limnodrilus udekemianus	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Quistadrilus multisetosus	14	14.0	280	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Slavina appendiculata	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Corbicula sp.	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Sphaeriidae	13	13.0	260	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Physa sp.	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Gammarus sp.	11	11.0	220	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Turbellaria	12	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Prostoma sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21F	11-15-2012	UPRT21F-BC03	Ponar	100.0	Nematoda	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC01	Ponar	100.0	Cryptochironomus sp.	8	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC01	Ponar	100.0	Tanytarsus sp.	1	1.0	20	0.05

Complete list of taxa and abundance data from the area above Dundee Dam (Windward, in prep) (collected 2012)

Event	Habitat	Reference Dataset	Location ID	Collection Date	Sample ID	Collection Method	Percent Subsampled	Lowest Practical Taxon	Abundance (raw)	Corrected abundance (to 100% of sample)	Abundance (per m2)	Sieve size
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC01	Ponar	100.0	Arcteonais lomondi	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC01	Ponar	100.0	Aulodrilus limnobius	8	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC01	Ponar	100.0	Aulodrilus pigueti	13	13.0	260	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC01	Ponar	100.0	Quistadrilus multisetosus	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC01	Ponar	100.0	Specaria josinae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC01	Ponar	100.0	Tubificidae w/ cap setae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC01	Ponar	100.0	Tubificidae w/o cap setae	17	17.0	340	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC01	Ponar	100.0	Corbicula sp.	26	26.0	520	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC01	Ponar	100.0	Sphaeriidae	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC01	Ponar	100.0	Gammarus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC01	Ponar	100.0	Turbellaria	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC01	Ponar	100.0	Prostoma sp.	6	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC02	Ponar	100.0	Mystacides sepulchralis	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC02	Ponar	100.0	Chironomus sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC02	Ponar	100.0	Cryptochironomus sp.	6	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC02	Ponar	100.0	Polypedilum scalaenum gr.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC02	Ponar	100.0	Aulodrilus limnobius	14	14.0	280	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC02	Ponar	100.0	Aulodrilus pigueti	12	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC02	Ponar	100.0	Limnodrilus hoffmeisteri	35	35.0	700	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC02	Ponar	100.0	Quistadrilus multisetosus	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC02	Ponar	100.0	Rhyacodrilus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC02	Ponar	100.0	Specaria josinae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC02	Ponar	100.0	Tubificidae w/ cap setae	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC02	Ponar	100.0	Corbicula sp.	27	27.0	540	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC02	Ponar	100.0	Pisidium sp.	7	7.0	140	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC02	Ponar	100.0	Gammarus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC02	Ponar	100.0	Turbellaria	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC02	Ponar	100.0	Prostoma sp.	12	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC03	Ponar	100.0	Cryptochironomus sp.	9	9.0	180	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC03	Ponar	100.0	Polypedilum halterale gr.	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC03	Ponar	100.0	Polypedilum scalaenum gr.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC03	Ponar	100.0	Aulodrilus limnobius	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC03	Ponar	100.0	Aulodrilus pigueti	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC03	Ponar	100.0	Limnodrilus hoffmeisteri	21	21.0	420	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC03	Ponar	100.0	Quistadrilus multisetosus	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC03	Ponar	100.0	Corbicula sp.	32	32.0	640	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC03	Ponar	100.0	Hydrobiidae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC03	Ponar	100.0	Planorbidae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT21G	11-15-2012	UPRT21G-BC03	Ponar	100.0	Prostoma sp.	16	16.0	320	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC01	Ponar	100.0	Hydroptila sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC01	Ponar	100.0	Dubiraphia sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC01	Ponar	100.0	Stenelmis sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC01	Ponar	100.0	Cryptochironomus sp.	7	7.0	140	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC01	Ponar	100.0	Dicrotendipes modestus	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC01	Ponar	100.0	Dicrotendipes neomodestus	6	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC01	Ponar	100.0	Tanytarsus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC01	Ponar	100.0	Limnodrilus hoffmeisteri	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC01	Ponar	100.0	Quistadrilus multisetosus	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC01	Ponar	100.0	Corbicula sp.	46	46.0	920	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC01	Ponar	100.0	Sphaeriidae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC01	Ponar	100.0	Ferrissia sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC01	Ponar	100.0	Gammarus sp.	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC01	Ponar	100.0	Lebertia sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC01	Ponar	100.0	Prostoma sp.	7	7.0	140	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC01	Ponar	100.0	Nematoda	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC02	Ponar	100.0	Hydroptila sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC02	Ponar	100.0	Dubiraphia sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC02	Ponar	100.0	Stenelmis sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC02	Ponar	100.0	Cryptochironomus sp.	22	22.0	440	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC02	Ponar	100.0	Dicrotendipes neomodestus	9	9.0	180	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC02	Ponar	100.0	Polypedilum halterale gr.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC02	Ponar	100.0	Polypedilum scalaenum gr.	7	7.0	140	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC02	Ponar	100.0	Helobdella elongata	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC02	Ponar	100.0	Aulodrilus limnobius	14	14.0	280	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC02	Ponar	100.0	Nais sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC02	Ponar	100.0	Quistadrilus multisetosus	12	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC02	Ponar	100.0	Tubificidae w/ cap setae	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC02	Ponar	100.0	Tubificidae w/o cap setae	26	26.0	520	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC02	Ponar	100.0	Corbicula sp.	155	155.0	3100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC02	Ponar	100.0	Sphaeriidae	7	7.0	140	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC02	Ponar	100.0	Planorbidae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC02	Ponar	100.0	Lebertia sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC02	Ponar	100.0	Limnesia sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC02	Ponar	100.0	Prostoma sp.	10	10.0	200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC02	Ponar	100.0	Nematoda	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC03	Ponar	100.0	Hydroptila sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC03	Ponar	100.0	Berosus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC03	Ponar	100.0	Cryptochironomus sp.	19	19.0	380	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC03	Ponar	100.0	Dicrotendipes neomodestus	10	10.0	200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC03	Ponar	100.0	Polypedilum scalaenum gr.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC03	Ponar	100.0	Helobdella elongata	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC03	Ponar	100.0	Aulodrilus limnobius	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC03	Ponar	100.0	Quistadrilus multisetosus	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC03	Ponar	100.0	Tubificidae w/o cap setae	8	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC03	Ponar	100.0	Corbicula sp.	88	88.0	1760	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC03	Ponar	100.0	Sphaeriidae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC03	Ponar	100.0	Micromenetus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC03	Ponar	100.0	Gammarus sp.	8	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC03	Ponar	100.0	Lebertia sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC03	Ponar	100.0	Turbellaria	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC03	Ponar	100.0	Prostoma sp.	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22A	11-16-2012	UPRT22A-BC03	Ponar	100.0	Nematoda	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Hydroptila sp.	17	17.0	340	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Oecetis sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Stenelmis sp.	9	9.0	180	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Ablabesmyia sp.	6	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Cricotopus bicinctus gr.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Cryptochironomus sp.	19	19.0	380	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Dicrotendipes neomodestus	40	40.0	800	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Orthocladius Complex	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Polypedilum sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Tanytarsus sp.	11	11.0	220	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Thienemannimyia gr. sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Bezzia/Palpomyia sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Helobdella sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Aulodrilus limnobius	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Nais sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Tubificidae w/ cap setae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Tubificidae w/o cap setae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Corbicula sp.	75	75.0	1500	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Ferrissia sp.	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Laevapex fuscus	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Micromenetus sp.	17	17.0	340	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Gammarus sp.	18	18.0	360	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Ostracoda	6	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Hygrobates sp.	1	1.0	20	0.05

Complete list of taxa and abundance data from the area above Dundee Dam (Windward, in prep) (collected 2012)

Event	Habitat	Reference Dataset	Location ID	Collection Date	Sample ID	Collection Method	Percent Subsampled	Lowest Practical Taxon	Abundance (raw)	Corrected abundance (to 100% of sample)	Abundance (per m2)	Sieve size
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Lebertia sp.	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Turbellaria	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Prostoma sp.	37	37.0	740	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC01	Ponar	100.0	Nematoda	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Hydroptila sp.	12	12.0	240	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Stenelmis sp.	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Cryptochironomus sp.	9	9.0	180	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Dicrotendipes fumidus	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Dicrotendipes neomodestus	113	113.0	2260	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Orthocladius sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Polypedilum scalaenum gr.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Rheotanytarsus exiguus gr.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Tanytarsus sp.	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Lumbriculidae	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Nais sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Tubificidae w/ cap setae	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Corbicula sp.	71	71.0	1420	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Sphaeriidae	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Ferrissia sp.	6	6.0	120	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Laevapex fuscus	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Micromenetus sp.	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Gammarus sp.	15	15.0	300	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Ostracoda	5	5.0	100	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Koenikea sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Lebertia sp.	8	8.0	160	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Turbellaria	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC02	Ponar	100.0	Prostoma sp.	20	20.0	400	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Cheumatopsyche sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Hydroptila sp.	10	10.0	200	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Oecetis sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Dubiraphia sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Stenelmis sp.	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Chironomus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Cryptochironomus sp.	17	17.0	340	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Dicrotendipes neomodestus	136	136.0	2720	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Orthocladius Complex	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Polypedilum scalaenum gr.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Tanytarsus sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Helobdella elongata	7	7.0	140	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Quistadrilus multisetosus	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Tubificidae w/ cap setae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Tubificidae w/o cap setae	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Corbicula sp.	68	68.0	1360	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Sphaeriidae	2	2.0	40	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Ferrissia sp.	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Laevapex fuscus	3	3.0	60	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Lymnaeidae	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Micromenetus sp.	7	7.0	140	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Gammarus sp.	13	13.0	260	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Ostracoda	4	4.0	80	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Lebertia sp.	1	1.0	20	0.05
Fall 2012 Upstream	Freshwater	Area Above Dundee Dan	UPRT22B	11-16-2012	UPRT22B-BC03	Ponar	100.0	Prostoma sp.	17	17.0	340	0.05

Note: taxonomy may differ slightly between reference area datasets due to the level of identification

Summary of benthic metric data from Jamaica Bay estuarine reference area

Reference dataset	Habitat	Study	Station ID	Location ID*	Latitude	Longitude	Sample date	Abundance (per m2)	Taxa richness	Shannon-Wiener H'	Pielou's J'	Swartz's Dominance	Hilsenhoff Biotic Index
Jamaica Bay	Estuarine	REMAP, 1993	JB002	2200_26_JB002	40.63616	-73.797836	9/14/1993	2875	18	2.17	0.75	5	
Jamaica Bay	Estuarine	REMAP, 1993	JB006	2200_26_JB006	40.6083	-73.77319	9/16/1993	35500	35	1.61	0.45	2.5	
Jamaica Bay	Estuarine	REMAP, 1993	JB008	2200_26_JB008	40.641081	-73.816019	9/14/1993	1688	8	1.58	0.77	3.5	
Jamaica Bay	Estuarine	REMAP 1998	JB008	2200_56_JB008	40.6409	-73.8162	8/4/1998	1713	8	1.33	0.75	2.5	
Jamaica Bay	Estuarine	REMAP, 1993	JB012	2200_26_JB012	40.648469	-73.890094	9/24/1993	63	2	0.66	0.96	2	
Jamaica Bay	Estuarine	REMAP, 1993	JB015	2200_26_JB015	40.626179	-73.794061	9/15/1993	125	4	1.36	0.98	3	
Jamaica Bay	Estuarine	REMAP, 1993	JB018	2200_26_JB018	40.608684	-73.786069	9/15/1993	21375	14.5	1.15	0.44	2	
Jamaica Bay	Estuarine	REMAP 1998	JB018	2200_56_JB018	40.6096	-73.786	8/5/1998	888	5	1.23	0.76	2.5	
Jamaica Bay	Estuarine	REMAP, 1993	JB022	2200_26_JB022	40.604022	-73.779599	9/17/1993	25113	23.5	1.53	0.48	2.5	
Jamaica Bay	Estuarine	REMAP, 1993	JB026	2200_26_JB026	40.603411	-73.841641	9/16/1993	37663	42.5	2.38	0.64	5.5	
Jamaica Bay	Estuarine	REMAP 1998	JB026	2200_56_JB026	40.6034	-73.842	8/7/1998	243875	41.5	1.76	0.47	3.5	
Jamaica Bay	Estuarine	REMAP, 1993	JB031	2200_26_JB031	40.611179	-73.871529	9/17/1993	44825	28.5	1.56	0.47	2	
Jamaica Bay	Estuarine	REMAP 1998	JB031	2200_56_JB031	40.611	-73.8719	8/8/1998	15325	25	2.00	0.62	4.5	
Jamaica Bay	Estuarine	REMAP, 1993	JB033	2200_26_JB033	40.615974	-73.887738	9/13/1993	146675	38.5	1.83	0.50	3.5	
Jamaica Bay	Estuarine	REMAP 1998	JB033	2200_56_JB033	40.6161	-73.8879	8/3/1998	80288	29	1.29	0.38	2	
Jamaica Bay	Estuarine	REMAP, 1993	JB039	2200_26_JB039	40.586676	-73.845564	9/8/1993	282150	44	2.04	0.54	4	
Jamaica Bay	Estuarine	REMAP 1998	JB039	2200_56_JB039	40.587	-73.845	8/1/1998	23800	29.5	1.83	0.54	3.5	
Jamaica Bay	Estuarine	REMAP, 1993	JB041	2200_26_JB041	40.585592	-73.860123	9/9/1993	324700	42	1.80	0.48	3	
Jamaica Bay	Estuarine	REMAP 1998	JB041	2200_56_JB041	40.585	-73.8613	8/1/1998	146750	44	1.52	0.40	3	
Jamaica Bay	Estuarine	REMAP, 1993	JB042	2200_26_JB042	40.582913	-73.848083	9/17/1993	6075	25	1.94	0.60	4	
Jamaica Bay	Estuarine	REMAP 1998	JB042	2200_56_JB042	40.5827	-73.847	8/1/1998	7425	26.5	1.98	0.61	4	
Jamaica Bay	Estuarine	REMAP, 1993	JB043	2200_26_JB043	40.576184	-73.873706	9/9/1993	86138	33	2.29	0.68	6.5	
Jamaica Bay	Estuarine	REMAP 1998	JB043	2200_56_JB043	40.5756	-73.8751	7/17/1998	22588	47	2.42	0.63	7	
Jamaica Bay	Estuarine	REMAP, 1994	JB101	2200_27_JB101	40.6395	-73.813667	9/9/1994	42463	14	0.59	0.22	1	
Jamaica Bay	Estuarine	REMAP, 1994	JB103	2200_27_JB103	40.629067	-73.787567	9/12/1994	25	1	0.35	0.50	1	
Jamaica Bay	Estuarine	REMAP, 1994	JB104	2200_27_JB104	40.621767	-73.8415	9/12/1994	5663	7.5	0.80	0.38	1.5	
Jamaica Bay	Estuarine	REMAP, 1994	JB106	2200_27_JB106	40.620783	-73.890333	9/6/1994	230575	40	2.00	0.54	4.5	
Jamaica Bay	Estuarine	REMAP, 1994	JB108	2200_27_JB108	40.61705	-73.85725	9/8/1994	6888	20	1.54	0.52	2.5	
Jamaica Bay	Estuarine	REMAP, 1994	JB110	2200_27_JB110	40.606533	-73.814567	9/9/1994	32713	21	1.46	0.48	2.5	
Jamaica Bay	Estuarine	REMAP, 1994	JB111	2200_27_JB111	40.6052	-73.790717	9/8/1994	111675	26	1.69	0.54	3.5	
Jamaica Bay	Estuarine	REMAP, 1994	JB112	2200_27_JB112	40.602533	-73.864867	9/8/1994	22488	29	1.85	0.55	4.5	
Jamaica Bay	Estuarine	REMAP, 1994	JB113	2200_27_JB113	40.595767	-73.8673	9/6/1994	33125	27.5	1.40	0.42	2	
Jamaica Bay	Estuarine	REMAP, 1994	JB114	2200_27_JB114	40.591167	-73.85135	9/8/1994	67788	34	2.25	0.64	6	
Jamaica Bay	Estuarine	REMAP, 1994	JB115	2200_27_JB115	40.63375	-73.869983	9/6/1994	21500	41	2.76	0.75	8	
Jamaica Bay	Estuarine	REMAP, 1994	JB117	2200_27_JB117	40.6234	-73.765233	9/14/1994	51713	29	2.05	0.61	5	
Jamaica Bay	Estuarine	REMAP, 1994	JB119	2200_27_JB119	40.60355	-73.875233	9/12/1994	14050	21.5	1.57	0.51	2.5	
Jamaica Bay	Estuarine	REMAP, 1994	JB120	2200_27_JB120	40.596367	-73.812983	9/13/1994	20375	22	1.41	0.45	2.5	
Jamaica Bay	Estuarine	REMAP 1998	JB201	2200_56_JB201	40.5718	-73.8794	7/17/1998	1513	13.5	2.05	0.79	4.5	
Jamaica Bay	Estuarine	REMAP 1998	JB202	2200_56_JB202	40.6118	-73.8101	8/6/1998	60325	29.5	1.58	0.47	2.5	
Jamaica Bay	Estuarine	REMAP 1998	JB203	2200_56_JB203	40.6328	-73.8067	8/4/1998	125	3	0.95	0.86	2.5	
Jamaica Bay	Estuarine	REMAP 1998	JB204	2200_56_JB204	40.6082	-73.8898	8/3/1998	2238	7	1.30	0.67	3	
Jamaica Bay	Estuarine	REMAP 1998	JB205	2200_56_JB205	40.589	-73.8593	8/1/1998	963	11	1.87	0.81	4.5	
Jamaica Bay	Estuarine	REMAP 1998	JB206	2200_56_JB206	40.5954	-73.8047	8/5/1998	8138	13	1.37	0.59	2.5	
Jamaica Bay	Estuarine	REMAP 1998	JB207	2200_56_JB207	40.6286	-73.7591	8/6/1998	19638	13	0.76	0.29	1.5	
Jamaica Bay	Estuarine	REMAP 1998	JB209	2200_56_JB209	40.6051	-73.7872	8/5/1998	85975	27	0.98	0.30	1.5	
Jamaica Bay	Estuarine	REMAP 1998	JB210	2200_56_JB210	40.6275	-73.8712	8/8/1998	6563	20.5	1.66	0.55	3	
Jamaica Bay	Estuarine	REMAP 1998	JB211	2200_56_JB211	40.612	-73.8725	8/8/1998	3913	20	2.01	0.67	4	
Jamaica Bay	Estuarine	REMAP 1998	JB212	2200_56_JB212	40.5881	-73.8335	8/6/1998	675	6.5	1.00	0.54	1.5	
Jamaica Bay	Estuarine	REMAP 1998	JB213	2200_56_JB213	40.6189	-73.7777	8/5/1998	325	2	0.40	0.36	1.5	
Jamaica Bay	Estuarine	REMAP 1998	JB214	2200_56_JB214	40.6426	-73.8581	8/3/1998	60675	24	0.71	0.23	1	
Jamaica Bay	Estuarine	REMAP 1998	JB215	2200_56_JB215	40.6256	-73.837	8/10/1998	73825	36	1.52	0.43	2	
Jamaica Bay	Estuarine	REMAP 1998	JB216	2200_56_JB216	40.633	-73.8734	8/8/1998	150913	39.5	1.39	0.38	2.5	
Jamaica Bay	Estuarine	REMAP 1998	JB217	2200_56_JB217	40.5853	-73.8522	8/10/1998	7625	20.5	1.85	0.61	4	
Jamaica Bay	Estuarine	REMAP 1998	JB219	2200_56_JB219	40.5749	-73.887	8/8/1998	850	10.5	1.96	0.86	5	
Jamaica Bay	Estuarine	REMAP 1998	JB222	2200_56_JB222	40.6032	-73.8777	8/11/1998	6700	12	0.92	0.40	1	
Jamaica Bay	Estuarine	REMAP 1998	JB223	2200_56_JB223	40.5926	-73.8707	8/10/1998	22438	14	1.11	0.42	2	
Jamaica Bay	Estuarine	NCA Prog New York/	NY-0029	2300_M0_NY-0029-A	40.5733	-73.8834	8/1/2000	660	17	0.92	0.74	6	
Jamaica Bay	Estuarine	NCA Prog New York/	NY-0032	2300_M1_NY-0032-A	40.6269	-73.8831	8/21/2001	18830	48	0.90	0.54	4	
Jamaica Bay	Estuarine	NCA Prog New York/	NY-0029	2300_M2_NY-0029-A	40.5734	-73.8811	8/14/2002	675	7	0.52	0.61	2	
Jamaica Bay	Estuarine	NCA Prog New York/	NY-0235	2300_M2_NY-0235-A	40.6453	-73.82	8/14/2002	1375	7	0.50	0.60	2	
Jamaica Bay	Estuarine	NCA Prog New York/	NY-0239	2300_M2_NY-0239-A	40.659	-73.8388	8/14/2002	25	1	0.00		1	
Jamaica Bay	Estuarine	NCA Prog New York/	NY03-02	2300_M3_NY03-0236	40.6312	-73.7424	8/5/2003	11900	28	1.08	0.75	6	
Jamaica Bay	Estuarine	NCA Prog New York/	NY04-02	2300_M4_NY04-0234	40.6079	-73.8823	8/3/2004	47600	21	0.52	0.39	2	
Jamaica Bay	Estuarine	REMAP 2003	JB301	JB301	40.629	-73.759	31-Jul-03	1980	17	1.83	0.66	3	
Jamaica Bay	Estuarine	REMAP 2003	JB303	JB303	40.619	-73.778	08-Aug-03	70	2.5	0.67	0.96	2	
Jamaica Bay	Estuarine	REMAP 2003	JB305	JB305	40.575	-73.87	07-Aug-03	8460	16	2.08	0.76	4.5	
Jamaica Bay	Estuarine	REMAP 2003	JB306	JB306	40.572	-73.88	05-Aug-03	11960	14.5	1.82	0.68	3.5	
Jamaica Bay	Estuarine	REMAP 2003	JB307	JB307	40.64	-73.847	11-Aug-03	151580	19.5	1.61	0.54	3.5	
Jamaica Bay	Estuarine	REMAP 2003	JB309	JB309	40.643	-73.858	05-Aug-03	146200	17	0.97	0.34	2	
Jamaica Bay	Estuarine	REMAP 2003	JB310	JB310	40.639	-73.828	12-Aug-03	2890	13.5	1.59	0.61	2.5	
Jamaica Bay	Estuarine	REMAP 2003	JB313	JB313	40.61	-73.81	11-Aug-03	1100	3	0.31	0.27	1	
Jamaica Bay	Estuarine	REMAP 2003	JB315	JB315	40.605	-73.786	14-Aug-03	5050	14.5	1.81	0.68	3.5	
Jamaica Bay	Estuarine	REMAP 2003	JB316	JB316	40.625	-73.837	08-Aug-03	33550	20	1.52	0.52	2.5	
Jamaica Bay	Estuarine	REMAP 2003	JB317	JB317	40.621	-73.812	13-Aug-03	19990	34	2.46	0.70	7	
Jamaica Bay	Estuarine	REMAP 2003	JB319	JB319	40.633	-73.807	05-Aug-03	480	8.5	1.78	0.86	4	
Jamaica Bay	Estuarine	REMAP 2003	JB322	JB322	40.627	-73.871	07-Aug-03	21300	30.5	2.07	0.61	4.5	
Jamaica Bay	Estuarine	REMAP 2003	JB323	JB323	40.633	-73.873	06-Aug-03	195430	23.5	1.25	0.40	2	
Jamaica Bay	Estuarine	REMAP 2003	JB354	JB354	40.602	-73.877	06-Aug-03	4360	11.5	2.05	0.85	5	
Jamaica Bay	Estuarine	REMAP 2003	JB358	JB358	40.608	-73.89	07-Aug-03	820	9	1.54	0.85	3	
Jamaica Bay	Estuarine	REMAP 2003	JB359	JB359	40.612	-73.872	07-Aug-03	7320	25.5	2.20	0.68	5.5	
Jamaica Bay	Estuarine	REMAP 2003	JB361	JB361	40.584	-73.853	08-Aug-03	20940	12	1.44	0.58	2.5	
Jamaica Bay	Estuarine	REMAP 2003	JB364	JB364	40.593	-73.871	11-Aug-03	61490	16.5	0.86	0.31	1	
Jamaica Bay	Estuarine	REMAP 2003	JB366	JB366	40.589	-73.859	13-Aug-03	48960	21	1.26	0.41	1.5	
Jamaica Bay	Estuarine	REMAP 2003	JB367	JB367	40.588	-73.835	12-Aug-03	131130	20	1.22	0.41	2	
Jamaica Bay	Estuarine	REMAP 2003	JB368	JB368	40.592	-73.846	12-Aug-03	94200	21.5	1.47	0.48	2.5	
Jamaica Bay	Estuarine	REMAP 2003	JB371	JB371	40.595	-73.805	14-Aug-03	155520	23.5	1.60	0.51	3	
Jamaica Bay	Estuarine	REMAP 2003	JB372	JB372	40.596	-73.812	14-Aug-03	20	1	0.00		1	
Jamaica Bay	Estuarine	REMAP 2003	JB374	JB374	40.624	-73.76	08-Sep-03	60	2	0.63	0.91	1.5	
Jamaica Bay	Estuarine	REMAP 2003	JB380	JB380	40.629	-73.854	09-Sep-03	18970	24	1.69	0.53	3	
Jamaica Bay	Estuarine	REMAP 2003	JB381	JB381	40.601	-73.774	15-Sep-03	110	3.5	1.10	0.88	2.5	
Jamaica Bay	Estuarine	REMAP 2003	JB386	JB386	40.604	-73.864	09-Sep-03	410	8	1.75	0.85	4	

* Location ID corresponds to associated chemistry and toxicity data, and has been provided as a cross-reference.

Summary of benthic metric data from Mullica River freshwater reference area

Reference dataset	Study	Station ID	Location ID*	Latitude	Longitude	Sampling date	Abundance (per m2)	Taxa richness	Shannon-Wiener H'	Pielou's J'	Swartz's Dominance	Hilsenhoff Biotic Index
Mullica River	NJ Department of Environmental Protection	AN05600300	na	39.785917	-74.86019	3/2/2000	2975	35	3.08	0.87	13	7.35
Mullica River	NJ Department of Environmental Protection	AN05600395	na	39.785917	-74.86019	3/9/1995	2400	35	3.22	0.90	15	6.22
Mullica River	NJ Department of Environmental Protection	AN05601104	na	39.785917	-74.86019	11/23/2004	2675	23	2.48	0.79	8	6.44
Mullica River	NJ Department of Environmental Protection	AN05610300	na	39.776278	-74.79875	3/2/2000	2550	19	2.64	0.90	9	5.93
Mullica River	NJ Department of Environmental Protection	AN05610395	na	39.776278	-74.79875	3/9/1995	2275	19	2.35	0.80	6	7.06
Mullica River	NJ Department of Environmental Protection	AN05610705	na	39.776278	-74.79875	7/27/2005	2900	11	1.58	0.66	3	7.39
Mullica River	NJ Department of Environmental Protection	AN05620300	na	39.743056	-74.75711	3/9/2000	2525	26	2.63	0.81	8	5.89
Mullica River	NJ Department of Environmental Protection	AN05620395	na	39.743056	-74.75711	3/9/1995	2650	22	2.37	0.77	7	3.81
Mullica River	NJ Department of Environmental Protection	AN05620705	na	39.743056	-74.75711	7/27/2005	1900	20	2.01	0.67	6	7.33
Mullica River	NJ Department of Environmental Protection	AN05640200	na	39.659254	-74.65859	2/10/2000	450	6	1.35	0.75	3	6.53
Mullica River	NJ Department of Environmental Protection	AN05640295	na	39.659254	-74.65859	2/23/1995	2500	17	1.80	0.63	5	6.00
Mullica River	NJ Department of Environmental Protection	AN05640406	na	39.659254	-74.65859	4/6/2006	2500	36	3.08	0.86	15	5.68
Mullica River	NCA Program New Jersey Atlantic Coast 2000	NJ00-0041	NJ00-0041	39.612	-74.589	9/7/2000	4825	15	1.93	0.71	4	6.79
Mullica River	NCA Program New Jersey Atlantic Coast 2001	NJ01-0120	NJ01-0120	39.62	-74.63	10/18/2001	5825	19	2.05	0.69	5	8.77
Mullica River	NCA Program New Jersey Atlantic Coast 2002	NJ02-0232	NJ02-0232	39.629	-74.643	9/3/2002	3900	14	1.53	0.58	3	6.97
Mullica River	NCA Program New Jersey Atlantic Coast 2006	NJ06-0046	NJ06-0046	39.612	-74.589	8/8/2006	3625	10	1.90	0.82	4	8.61

Summary of benthic metric data from Mullica River/Great Bay estuarine reference area

Reference dataset	Study	Station ID	Location ID*	Latitude	Longitude	Sampling date	Abundance (per m2)	Taxa richness	Shannon-Wiener H'	Pielou's J'	Swartz's Dominance
Mullica River and Great Bay	NCCA Program 2010	NCCA10-2622	NCCA10-2622	39.50785	-74.33571	8/5/2010	2525	8	0.92	0.44	2
Mullica River and Great Bay	NCA Program New Jersey Atlantic Coast 2000	NJ00-0035	NJ00-0035	39.505	-74.399	9/7/2000	6200	23	1.38	0.44	2
Mullica River and Great Bay	NCA Program New Jersey Atlantic Coast 2000	NJ01-0036	NJ01-0036	39.511	-74.297	8/8/2001	1470	17	2.01	0.71	4
Mullica River and Great Bay	NCA Program New Jersey Atlantic Coast 2000	NJ01-0038	NJ01-0038	39.557	-74.48	7/19/2001	1675	11	1.68	0.70	3
Mullica River and Great Bay	NCA Program New Jersey Atlantic Coast 2001	NJ01-0116	NJ01-0116	39.535	-74.377	10/11/2001	13000	33	1.94	0.56	4
Mullica River and Great Bay	NCA Program New Jersey Atlantic Coast 2001	NJ01-0118	NJ01-0118	39.553	-74.454	10/12/2001	8050	37	2.93	0.81	10
Mullica River and Great Bay	NCA Program New Jersey Atlantic Coast 2001	NJ01-0122	NJ01-0122	39.585	-74.538	10/18/2001	9950	14	1.68	0.64	3
Mullica River and Great Bay	NCA Program New Jersey Atlantic Coast 2002	NJ02-0227	NJ02-0227	39.498	-74.334	9/23/2002	51375	34	1.01	0.29	2
Mullica River and Great Bay	NCA Program New Jersey Atlantic Coast 2002	NJ02-0229	NJ02-0229	39.582	-74.536	9/3/2002	15550	18	1.54	0.53	2
Mullica River and Great Bay	NCA Program New Jersey Atlantic Coast 2002	NJ02-0230	NJ02-0230	39.537	-74.334	8/15/2002	46100	42	1.51	0.40	3
Mullica River and Great Bay	NCA Prog New Jersey Atlantic Coast 2003	NJ03-0038	2300_L3_NJ03-0038	39.5568	-74.4796	10/29/2003	2000	14	2.13	0.81	5
Mullica River and Great Bay	NCA Prog New Jersey Atlantic Coast 2004	NJ04-0427	2300_L4_NJ04-0427	39.521	-74.379	8/27/2004	27600	45	1.86	0.49	4
Mullica River and Great Bay	NCA Prog New Jersey Atlantic Coast 2004	NJ04-0429	2300_L4_NJ04-0429	39.568	-74.502	7/9/2004	350	8	1.91	0.92	5
Mullica River and Great Bay	NCA Prog New Jersey Atlantic Coast 2005	NJ05-0059	2300_L5_NJ05-0059	39.505	-74.354	9/13/2005	22075	22	1.14	0.37	2
Mullica River and Great Bay	NCA Prog New Jersey Atlantic Coast 2006	NJ06-0015	2300_L6_NJ06-0015	39.536	-74.388	8/8/2006	7100	39	2.79	0.76	9
Mullica River and Great Bay	NCA Prog New Jersey Atlantic Coast 2006	NJ06-0027	2300_L6_NJ06-0027	39.5	-74.401	7/14/2006	3800	30	3.01	0.88	11
Mullica River and Great Bay	NCA Prog New Jersey Atlantic Coast 2006	NJ06-0035	2300_L6_NJ06-0035	39.496	-74.36	7/14/2006	4725	30	2.61	0.77	7

* Location ID corresponds to associated chemistry and toxicity data, and has been provided as a cross-reference.

Community Metrics by Location from Above Dundee Dam, 2012

Event	Habitat	Station	RM	Abundance (per m^2)		Taxa Richness		Shannon-Weiner H'		Pielou's J'		Swartz's Dominance		Hilsenhoff Biotic Index	
				Mean	StDev	Mean	StDev	Mean	StDev	Mean	StDev	Mean	StDev	Mean	StDev
Fall 2012	Freshwater	UPRT18H	17.7	11500	1230	19	2.65	2.01	0.249	0.683	0.0569	4.33	1.15	9.41	0.179
Fall 2012	Freshwater	UPRT18I	17.6	20600	9060	21.7	1.53	2.26	0.0777	0.737	0.0231	5.67	0.577	8.64	0.224
Fall 2012	Freshwater	UPRT18J	17.7	16800	4500	15.7	0.577	1.47	0.0751	0.537	0.0321	2	0	9.69	0.07
Fall 2012	Freshwater	UPRT18K	18.0	16100	4710	22	3.46	1.99	0.288	0.647	0.0651	4	1	8.85	0.539
Fall 2012	Freshwater	UPRT19J	18.2	1030	677	8.33	4.51	1.27	0.384	0.633	0.0153	2.33	0.577	9.62	0.0764
Fall 2012	Freshwater	UPRT19K	18.3	11800	6310	33	1	2.67	0.0503	0.76	0.0173	9	0	8.53	0.207
Fall 2012	Freshwater	UPRT19L	18.6	14300	10200	25.7	9.29	2.35	0.597	0.723	0.1	6.67	3.21	8.19	0.838
Fall 2012	Freshwater	UPRT19M	18.8	15200	5500	24	1	2.39	0.195	0.75	0.0529	6.33	1.53	8.25	0.34
Fall 2012	Freshwater	UPRT20A	19.2	9950	6100	18.7	0.577	2.13	0.116	0.727	0.0379	5.33	0.577	8.39	0.0839
Fall 2012	Freshwater	UPRT20B	19.2	19500	13300	23	1	1.94	0.264	0.617	0.0737	4.33	0.577	8.94	0.36
Fall 2012	Freshwater	UPRT20C	19.4	3820	251	12.3	3.06	1.55	0.131	0.623	0.0635	3	0	9.56	0.12
Fall 2012	Freshwater	UPRT20D	19.5	15100	4500	32.3	4.16	2.56	0.174	0.737	0.0321	7	1	8.7	0.362
Fall 2012	Freshwater	UPRT20E	19.7	5500	5930	23	8	2.65	0.18	0.86	0.0436	8.33	1.53	7.86	0.374
Fall 2012	Freshwater	UPRT20F	19.8	9180	2540	29.7	1.15	2.75	0.0289	0.813	0.00577	9.67	1.15	7.99	0.191
Fall 2012	Freshwater	UPRT20G	19.9	16100	9270	19	3	2.13	0.11	0.727	0.0252	5.67	1.15	8.82	0.151
Fall 2012	Freshwater	UPRT21A	20.1	11200	9690	21	1	2.19	0.131	0.72	0.0458	4.33	0.577	8.28	0.377
Fall 2012	Freshwater	UPRT21B	20.2	18400	11600	18	1	1.56	0.0577	0.54	0.01	2.67	0.577	9.48	0.0611
Fall 2012	Freshwater	UPRT21C	20.3	11500	8010	32.3	5.51	2.73	0.0493	0.79	0.0361	9.33	0.577	7.95	0.295
Fall 2012	Freshwater	UPRT21D	20.5	13400	12500	21.3	1.53	2.18	0.244	0.717	0.0929	5	1	8.08	0.595
Fall 2012	Freshwater	UPRT21E	20.6	6390	1130	16.7	2.52	1.79	0.0764	0.643	0.0208	3.67	0.577	8.69	0.18
Fall 2012	Freshwater	UPRT21F	20.7	14000	12800	26.7	4.16	2.27	0.0854	0.697	0.0513	6	1	8.4	0.304
Fall 2012	Freshwater	UPRT21G	20.9	2070	446	13.7	2.52	2.01	0.197	0.773	0.0208	4.33	1.15	7.64	0.207
Fall 2012	Freshwater	UPRT22A	21.2	3490	1950	17.7	2.08	1.76	0.0656	0.617	0.0379	4	0	6.84	0.0987
Fall 2012	Freshwater	UPRT22B	21.3	5880	231	25.3	2.52	2.16	0.295	0.667	0.0764	5	1.73	7.02	0.242

Note: benthic metrics presented as the mean of three replicates

2012 Sediment Toxicity Reference Data for the LPRSA

Sediment Toxicity Test Reference Data, shown by replicate

Location ID	Laboratory Sample ID	Bioassay Lab Replicate ID	*Chironomus dilutus* 10-day survival and growth						*Hyalella azteca* 28-day survival and growth					
			Survival		**Weight[a] (mg)**		**Biomass[b] (mg)**		**Survival**		**Weight[c] (mg)**		**Biomass[d] (mg)**	
			Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final
Lab Control	22800-000	1	10	9	0.401	1.6456	0.401	1.48	10	9	0.015	0.7256	0.015	0.653
Lab Control	22800-000	2	10	10	0.401	2.24	0.401	2.24	10	9	0.015	0.7067	0.015	0.636
Lab Control	22800-000	3	10	10	0.401	2.47	0.401	2.47	10	10	0.015	0.726	0.015	0.726
Lab Control	22800-000	4	11	11	0.401	1.72	0.401	1.72	10	7	0.015	0.5743	0.015	0.402
Lab Control	22800-000	5	10	10	0.401	1.775	0.401	1.78	10	10	0.015	0.494	0.015	0.494
Lab Control	22800-000	6	10	10	0.401	1.8125	0.401	1.81	10	10	0.015	0.48	0.015	0.48
Lab Control	22800-000	7	10	9	0.401	1.7883	0.401	1.53	10	8	0.015	0.7275	0.015	0.582
Lab Control	22800-000	8	10	10	0.401	1.5567	0.401	1.56	10	9	0.015	0.5633	0.015	0.507
UPRT18H	22800-002	1	10	9	0.401	na[e]	0.401	na[e]	10	8	0.015	0.4188	0.015	0.335
UPRT18H	22800-002	2	10	9	0.401	2.0067	0.401	1.81	10	6	0.015	0.37	0.015	0.222
UPRT18H	22800-002	3	10	10	0.401	na[e]	0.401	na[e]	10	10	0.015	0.326	0.015	0.326
UPRT18H	22800-002	4	10	10	0.401	1.333	0.401	1.33	10	10	0.015	0.362	0.015	0.362
UPRT18H	22800-002	5	10	9	0.401	1.8267	0.401	1.57	10	8	0.015	0.2075	0.015	0.166
UPRT18H	22800-002	6	10	9	0.401	1.825	0.401	1.56	10	9	0.015	0.3122	0.015	0.281
UPRT18H	22800-002	7	10	10	0.401	1.3063	0.401	1.31	10	9	0.015	0.2444	0.015	0.22
UPRT18H	22800-002	8	10	9	0.401	1	0.401	0.889	10	8	0.015	0.2463	0.015	0.197
UPRT18I	22800-001	1	10	10	0.401	1.319	0.401	1.32	10	10	0.015	0.292	0.015	0.292
UPRT18I	22800-001	2	10	8	0.401	1.862	0.401	1.33	10	7	0.015	0.33	0.015	0.231
UPRT18I	22800-001	3	10	6	0.401	na[e]	0.401	na[e]	10	7	0.015	0.2129	0.015	0.149
UPRT18I	22800-001	4	10	10	0.401	1.3667	0.401	1.37	10	9	0.015	0.2156	0.015	0.194
UPRT18I	22800-001	5	10	3	0.401	2.0167	0.401	0.605	10	7	0.015	0.2114	0.015	0.148
UPRT18I	22800-001	6	10	8	0.401	2.1871	0.401	1.7	10	10	0.015	0.22	0.015	0.22
UPRT18I	22800-001	7	10	6	0.401	1.694	0.401	0.941	10	6	0.015	0.185	0.015	0.111
UPRT18I	22800-001	8	10	6	0.401	1.5283	0.401	0.917	10	2	0.015	0.36	0.015	0.072
UPRT18J	22800-003	1	10	8	0.401	1.3987	0.401	1.12	10	8	0.015	0.29	0.015	0.232
UPRT18J	22800-003	2	10	10	0.401	1.6111	0.401	1.61	10	10	0.015	0.369	0.015	0.369
UPRT18J	22800-003	3	10	10	0.401	1.7675	0.401	1.77	10	9	0.015	0.3811	0.015	0.343
UPRT18J	22800-003	4	10	10	0.401	1.363	0.401	1.36	10	9	0.015	0.4478	0.015	0.403
UPRT18J	22800-003	5	10	9	0.401	1.6313	0.401	1.45	10	9	0.015	0.2844	0.015	0.256
UPRT18J	22800-003	6	10	10	0.401	1.9475	0.401	1.95	10	9	0.015	0.3278	0.015	0.295
UPRT18J	22800-003	7	10	7	0.401	1.362	0.401	0.851	10	9	0.015	0.2556	0.015	0.23
UPRT18J	22800-003	8	10	7	0.401	1.276	0.401	0.797	10	9	0.015	0.3167	0.015	0.285
UPRT18K	22800-004	1	10	8	0.401	1.4925	0.401	1.19	10	8	0.015	0.2663	0.015	0.213
UPRT18K	22800-004	2	10	8	0.401	1.4786	0.401	1.15	10	6	0.015	0.385	0.015	0.231
UPRT18K	22800-004	3	10	9	0.401	na[e]	0.401	na[e]	10	9	0.015	0.3689	0.015	0.332
UPRT18K	22800-004	4	10	8	0.401	1.3462	0.401	1.08	10	10	0.015	0.364	0.015	0.364
UPRT18K	22800-004	5	10	10	0.401	1.569	0.401	1.57	10	8	0.015	0.3175	0.015	0.254
UPRT18K	22800-004	6	10	8	0.401	1.547	0.401	1.24	10	6	0.015	0.4817	0.015	0.289
UPRT18K	22800-004	7	10	9	0.401	1.4011	0.401	1.26	10	7	0.015	0.5171	0.015	0.362
UPRT18K	22800-004	8	10	9	0.401	1.4288	0.401	1.27	10	6	0.015	0.3067	0.015	0.184
UPRT19J	22800-005	1	10	3	0.401	na[e]	0.401	na[e]	10	0	0.015	na[f]	0.015	0
UPRT19J	22800-005	2	10	0	0.401	na[f]	0.401	0	10	0	0.015	na[f]	0.015	0
UPRT19J	22800-005	3	10	0	0.401	na[f]	0.401	0	10	0	0.015	na[f]	0.015	0
UPRT19J	22800-005	4	10	0	0.401	na[f]	0.401	0	10	0	0.015	na[f]	0.015	0
UPRT19J	22800-005	5	10	0	0.401	na[f]	0.401	0	10	0	0.015	na[f]	0.015	0
UPRT19J	22800-005	6	10	0	0.401	na[f]	0.401	0	10	0	0.015	na[f]	0.015	0
UPRT19J	22800-005	7	10	0	0.401	na[f]	0.401	0	10	0	0.015	na[f]	0.015	0
UPRT19J	22800-005	8	10	0	0.401	na[f]	0.401	0	10	0	0.015	na[f]	0.015	0
UPRT19K	22800-006	1	10	8	0.401	1.7129	0.401	1.33	10	10	0.015	0.475	0.015	0.475
UPRT19K	22800-006	2	10	8	0.401	1.702	0.401	1.36	10	10	0.015	0.436	0.015	0.436
UPRT19K	22800-006	3	10	10	0.401	1.431	0.401	1.43	10	8	0.015	0.3825	0.015	0.306
UPRT19K	22800-006	4	10	2	0.401	2.015	0.401	0.403	10	8	0.015	0.3587	0.015	0.287
UPRT19K	22800-006	5	10	9	0.401	1.6025	0.401	1.28	10	8	0.015	0.285	0.015	0.228
UPRT19K	22800-006	6	10	8	0.401	1.822	0.401	1.3	10	10	0.015	0.44	0.015	0.44
UPRT19K	22800-006	7	10	7	0.401	1.6086	0.401	1.13	10	8	0.015	0.36	0.015	0.288
UPRT19K	22800-006	8	10	7	0.401	1.6457	0.401	1.15	10	9	0.015	0.3456	0.015	0.311
UPRT19L	22800-007	1	10	7	0.401	na[e]	0.401	na[e]	10	9	0.015	0.5667	0.015	0.51
UPRT19L	22800-007	2	10	8	0.401	2.1217	0.401	1.59	10	8	0.015	0.33	0.015	0.264
UPRT19L	22800-007	3	10	7	0.401	1.7743	0.401	1.24	10	7	0.015	0.3343	0.015	0.234
UPRT19L	22800-007	4	10	10	0.401	1.61	0.401	1.61	10	5	0.015	0.38	0.015	0.19
UPRT19L	22800-007	5	10	7	0.401	1.5014	0.401	1.05	10	5	0.015	0.434	0.015	0.217
UPRT19L	22800-007	6	10	8	0.401	1.7071	0.401	1.33	10	6	0.015	0.3417	0.015	0.205
UPRT19L	22800-007	7	10	6	0.401	1.48	0.401	0.822	10	3	0.015	0.1167	0.015	0.035
UPRT19L	22800-007	8	10	9	0.401	1.3171	0.401	1.15	10	9	0.015	0.2256	0.015	0.203
UPRT19M	22800-008	1	10	10	0.401	1.397	0.401	1.4	10	2	0.015	0.395	0.015	0.079
UPRT19M	22800-008	2	10	8	0.401	1.8543	0.401	1.44	10	4	0.015	0.3425	0.015	0.137
UPRT19M	22800-008	3	10	5	0.401	na[e]	0.401	na[e]	10	1	0.015	0.36	0.015	0.036

2012 Sediment Toxicity Reference Data for the LPRSA

Sediment Toxicity Test Reference Data, shown by replicate

Location ID	Laboratory Sample ID	Bioassay Lab Replicate ID	*Chironomus dilutus* 10-day survival and growth						*Hyalella azteca* 28-day survival and growth					
			Survival		Weight[a] (mg)		Biomass[b] (mg)		Survival		Weight[c] (mg)		Biomass[d] (mg)	
			Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final
UPRT19M	22800-008	4	10	9	0.401	1.4822	0.401	1.33	10	6	0.015	0.3733	0.015	0.224
UPRT19M	22800-008	5	10	7	0.401	2.37	0.401	1.35	10	3	0.015	0.3367	0.015	0.101
UPRT19M	22800-008	6	10	9	0.401	1.7263	0.401	1.53	10	7	0.015	0.3043	0.015	0.213
UPRT19M	22800-008	7	10	8	0.401	1.6917	0.401	1.27	10	7	0.015	0.3414	0.015	0.239
UPRT19M	22800-008	8	10	8	0.401	1.3125	0.401	1.05	10	5	0.015	0.304	0.015	0.152
UPRT20A	22800-009	1	10	10	0.401	1.5044	0.401	1.5	10	5	0.015	0.302	0.015	0.151
UPRT20A	22800-009	2	10	9	0.401	1.9744	0.401	1.78	10	7	0.015	0.2871	0.015	0.201
UPRT20A	22800-009	3	10	8	0.401	1.5457	0.401	1.2	10	8	0.015	0.1938	0.015	0.155
UPRT20A	22800-009	4	10	6	0.401	1.916	0.401	1.06	10	9	0.015	0.3078	0.015	0.277
UPRT20A	22800-009	5	10	10	0.401	1.861	0.401	1.86	10	4	0.015	0.27	0.015	0.108
UPRT20A	22800-009	6	10	6	0.401	3.01	0.401	1.29	10	6	0.015	0.29	0.015	0.174
UPRT20A	22800-009	7	10	5	0.401	1.952	0.401	0.976	10	0	0.015	na[f]	0.015	0
UPRT20A	22800-009	8	10	9	0.401	1.5357	0.401	1.34	10	9	0.015	0.1133	0.015	0.102
UPRT20B	22800-010	1	10	10	0.401	1.18	0.401	1.18	10	7	0.015	0.2514	0.015	0.176
UPRT20B	22800-010	2	10	8	0.401	1.965	0.401	1.31	10	10	0.015	0.41	0.015	0.41
UPRT20B	22800-010	3	10	5	0.401	1.65	0.401	0.733	10	9	0.015	0.3511	0.015	0.316
UPRT20B	22800-010	4	10	10	0.401	1.844	0.401	1.84	10	8	0.015	0.21	0.015	0.168
UPRT20B	22800-010	5	10	8	0.401	2.1638	0.401	1.73	10	7	0.015	0.4086	0.015	0.286
UPRT20B	22800-010	6	10	8	0.401	2.7517	0.401	2.06	10	9	0.015	0.2567	0.015	0.231
UPRT20B	22800-010	7	10	8	0.401	2.2983	0.401	1.72	10	9	0.015	0.3289	0.015	0.296
UPRT20B	22800-010	8	10	7	0.401	1.7557	0.401	1.23	10	1	0.015	0.59	0.015	0.059
UPRT20C	22800-011	1	10	9	0.401	1.6375	0.401	1.46	10	7	0.015	0.48	0.015	0.336
UPRT20C	22800-011	2	10	9	0.401	na[e]	0.401	na[e]	10	8	0.015	0.5513	0.015	0.441
UPRT20C	22800-011	3	10	10	0.401	na[e]	0.401	na[e]	10	na	0.015	na[g]	0.015	na[g]
UPRT20C	22800-011	4	10	9	0.401	1.8971	0.401	1.66	10	4	0.015	0.3575	0.015	0.143
UPRT20C	22800-011	5	10	9	0.401	2.24	0.401	2.02	10	8	0.015	0.34	0.015	0.272
UPRT20C	22800-011	6	10	8	0.401	1.3967	0.401	1.05	10	10	0.015	0.473	0.015	0.473
UPRT20C	22800-011	7	10	9	0.401	1.7856	0.401	1.61	10	10	0.015	0.351	0.015	0.351
UPRT20C	22800-011	8	10	9	0.401	1.6467	0.401	1.48	10	6	0.015	0.2083	0.015	0.125
UPRT20D	22800-012	1	10	5	0.401	1.476	0.401	0.738	10	10	0.015	0.372	0.015	0.372
UPRT20D	22800-012	2	11	11	0.401	1.5578	0.401	1.56	10	9	0.015	0.3456	0.015	0.311
UPRT20D	22800-012	3	10	9	0.401	1.2533	0.401	1.13	10	7	0.015	0.5071	0.015	0.355
UPRT20D	22800-012	4	10	9	0.401	1.36	0.401	1.22	10	9	0.015	0.3033	0.015	0.273
UPRT20D	22800-012	5	10	9	0.401	1.39	0.401	1.24	10	3	0.015	0.36	0.015	0.108
UPRT20D	22800-012	6	10	7	0.401	2.5625	0.401	1.46	10	10	0.015	0.197	0.015	0.197
UPRT20D	22800-012	7	10	4	0.401	1.722	0.401	0.689	10	8	0.015	0.3587	0.015	0.287
UPRT20D	22800-012	8	10	10	0.401	1.279	0.401	1.28	10	3	0.015	0.1	0.015	0.03
UPRT20E	22800-013	1	10	9	0.401	1.4383	0.401	1.23	10	6	0.015	0.405	0.015	0.243
UPRT20E	22800-013	2	10	10	0.401	1.7637	0.401	1.76	10	6	0.015	0.5017	0.015	0.301
UPRT20E	22800-013	3	10	8	0.401	1.54	0.401	1.23	10	8	0.015	0.4587	0.015	0.367
UPRT20E	22800-013	4	10	5	0.401	1.874	0.401	0.937	10	7	0.015	0.33	0.015	0.231
UPRT20E	22800-013	5	10	10	0.401	1.567	0.401	1.57	10	4	0.015	0.25	0.015	0.1
UPRT20E	22800-013	6	10	9	0.401	1.9671	0.401	1.72	10	8	0.015	0.3088	0.015	0.247
UPRT20E	22800-013	7	10	9	0.401	1.6487	0.401	1.47	10	8	0.015	0.2813	0.015	0.225
UPRT20E	22800-013	8	10	8	0.401	1.288	0.401	0.92	10	6	0.015	0.1567	0.015	0.094
UPRT20F	22800-014	1	10	6	0.401	na[e]	0.401	na[e]	10	0	0.015	na[b]	0.015	0
UPRT20F	22800-014	2	10	7	0.401	2.08	0.401	1.39	10	0	0.015	na[b]	0.015	0
UPRT20F	22800-014	3	10	6	0.401	0.9067	0.401	0.544	10	0	0.015	na[b]	0.015	0
UPRT20F	22800-014	4	10	6	0.401	1.0383	0.401	0.623	10	0	0.015	na[b]	0.015	0
UPRT20F	22800-014	5	10	7	0.401	0.9271	0.401	0.649	10	0	0.015	na[b]	0.015	0
UPRT20F	22800-014	6	10	2	0.401	0.9	0.401	0.18	10	0	0.015	na[b]	0.015	0
UPRT20F	22800-014	7	10	5	0.401	1.344	0.401	0.672	10	0	0.015	na[b]	0.015	0
UPRT20F	22800-014	8	10	4	0.401	1.252	0.401	0.501	10	1	0.015	0.07	0.015	0.007
UPRT20G	22800-015	1	10	6	0.401	1.04	0.401	0.624	10	8	0.015	0.5212	0.015	0.417
UPRT20G	22800-015	2	10	8	0.401	na[e]	0.401	na[e]	10	6	0.015	0.415	0.015	0.249
UPRT20G	22800-015	3	10	8	0.401	1.9733	0.401	1.48	10	7	0.015	0.24	0.015	0.168
UPRT20G	22800-015	4	10	9	0.401	2.084	0.401	1.74	10	8	0.015	0.2987	0.015	0.239
UPRT20G	22800-015	5	10	9	0.401	1.7422	0.401	1.57	10	5	0.015	0.328	0.015	0.164
UPRT20G	22800-015	6	10	10	0.401	1.86	0.401	1.86	10	9	0.015	0.1844	0.015	0.166
UPRT20G	22800-015	7	10	9	0.401	2.01	0.401	1.79	10	5	0.015	0.156	0.015	0.078
UPRT20G	22800-015	8	10	9	0.401	1.6117	0.401	1.38	10	6	0.015	0.1883	0.015	0.113
UPRT21A	22800-016	1	10	9	0.401	1.4011	0.401	1.26	10	6	0.015	0.5267	0.015	0.316
UPRT21A	22800-016	2	10	9	0.401	2.3833	0.401	2.04	10	8	0.015	0.3225	0.015	0.258
UPRT21A	22800-016	3	10	8	0.401	2.36	0.401	1.69	10	9	0.015	0.2678	0.015	0.241
UPRT21A	22800-016	4	10	8	0.401	1.894	0.401	1.35	10	4	0.015	0.2725	0.015	0.109
UPRT21A	22800-016	5	10	8	0.401	1.31	0.401	1.05	10	5	0.015	0.34	0.015	0.17
UPRT21A	22800-016	6	10	10	0.401	1.7	0.401	1.7	10	9	0.015	0.3	0.015	0.27
UPRT21A	22800-016	7	10	9	0.401	1.2312	0.401	1.09	10	7	0.015	0.2486	0.015	0.174
UPRT21A	22800-016	8	10	10	0.401	1.2975	0.401	1.3	10	7	0.015	0.2914	0.015	0.204
UPRT21B	22800-017	1	10	7	0.401	2.018	0.401	1.26	10	2	0.015	0.11	0.015	0.022

2012 Sediment Toxicity Reference Data for the LPRSA

Sediment Toxicity Test Reference Data, shown by replicate

Location ID	Laboratory Sample ID	Bioassay Lab Replicate ID	*Chironomus dilutus* 10-day survival and growth						*Hyalella azteca* 28-day survival and growth					
			Survival		**Weight[a] (mg)**		**Biomass[b] (mg)**		**Survival**		**Weight[c] (mg)**		**Biomass[d] (mg)**	
			Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final
UPRT21B	22800-017	2	10	8	0.401	1.3943	0.401	1.08	10	6	0.015	0.3067	0.015	0.184
UPRT21B	22800-017	3	10	8	0.401	na[e]	0.401	na[e]	10	3	0.015	0.4233	0.015	0.127
UPRT21B	22800-017	4	10	9	0.401	1.7644	0.401	1.59	10	1	0.015	0.09	0.015	0.009
UPRT21B	22800-017	5	10	8	0.401	2.2414	0.401	1.74	10	0	0.015	na[f]	0.015	0
UPRT21B	22800-017	6	10	6	0.401	2.7283	0.401	1.64	10	1	0.015	0.1	0.015	0.01
UPRT21B	22800-017	7	10	9	0.401	3.1	0.401	2.48	10	1	0.015	0.21	0.015	0.021
UPRT21B	22800-017	8	10	8	0.401	2.3983	0.401	1.8	10	1	0.015	0.17	0.015	0.017
UPRT21C	22800-018	1	10	7	0.401	1.38	0.401	0.966	10	9	0.015	0.3022	0.015	0.272
UPRT21C	22800-018	2	10	9	0.401	na[e]	0.401	na[e]	10	7	0.015	0.4171	0.015	0.292
UPRT21C	22800-018	3	10	7	0.401	2.32	0.401	0.928	10	7	0.015	0.3843	0.015	0.269
UPRT21C	22800-018	4	10	7	0.401	1.9771	0.401	1.38	10	8	0.015	0.4087	0.015	0.327
UPRT21C	22800-018	5	10	6	0.401	1.7633	0.401	1.06	10	8	0.015	0.2925	0.015	0.234
UPRT21C	22800-018	6	10	8	0.401	2.4	0.401	1.87	10	7	0.015	0.3243	0.015	0.227
UPRT21C	22800-018	7	10	7	0.401	2.244	0.401	1.4	10	8	0.015	0.375	0.015	0.3
UPRT21C	22800-018	8	10	7	0.401	1.6117	0.401	1.07	10	8	0.015	0.3237	0.015	0.259
UPRT21D	22800-019	1	10	7	0.401	1.8717	0.401	1.25	10	9	0.015	0.3711	0.015	0.334
UPRT21D	22800-019	2	10	8	0.401	2.1417	0.401	1.61	10	6	0.015	0.5033	0.015	0.302
UPRT21D	22800-019	3	10	9	0.401	na[e]	0.401	na[e]	10	5	0.015	0.234	0.015	0.117
UPRT21D	22800-019	4	10	9	0.401	1.6289	0.401	1.47	10	9	0.015	0.2167	0.015	0.195
UPRT21D	22800-019	5	10	4	0.401	2.592	0.401	1.04	10	6	0.015	0.28	0.015	0.168
UPRT21D	22800-019	6	10	8	0.401	1.7757	0.401	1.38	10	7	0.015	0.2386	0.015	0.167
UPRT21D	22800-019	7	10	6	0.401	2.217	0.401	1.11	10	1	0.015	0.21	0.015	0.021
UPRT21D	22800-019	8	10	6	0.401	2.2433	0.401	1.35	10	7	0.015	0.1457	0.015	0.102
UPRT21E	22800-020	1	10	8	0.401	1.65	0.401	1.32	10	8	0.015	0.4312	0.015	0.345
UPRT21E	22800-020	2	10	10	0.401	1.8029	0.401	1.8	10	5	0.015	0.422	0.015	0.211
UPRT21E	22800-020	3	10	6	0.401	1.3067	0.401	0.56	10	1	0.015	0.19	0.015	0.019
UPRT21E	22800-020	4	10	8	0.401	1.5725	0.401	1.26	10	5	0.015	0.276	0.015	0.138
UPRT21E	22800-020	5	10	9	0.401	1.716	0.401	1.43	10	7	0.015	0.2257	0.015	0.158
UPRT21E	22800-020	6	10	10	0.401	1.6122	0.401	1.61	10	7	0.015	0.21	0.015	0.147
UPRT21E	22800-020	7	10	9	0.401	1.8343	0.401	1.61	10	7	0.015	0.2	0.015	0.14
UPRT21E	22800-020	8	10	7	0.401	1.6	0.401	0.8	10	6	0.015	0.195	0.015	0.117
UPRT21F	22800-021	1	10	8	0.401	1.895	0.401	1.52	10	8	0.015	0.3787	0.015	0.303
UPRT21F	22800-021	2	10	8	0.401	2.41	0.401	1.72	10	10	0.015	0.389	0.015	0.389
UPRT21F	22800-021	3	10	8	0.401	2.3117	0.401	1.73	10	7	0.015	0.3486	0.015	0.244
UPRT21F	22800-021	4	10	10	0.401	2.1871	0.401	2.19	10	8	0.015	0.3787	0.015	0.303
UPRT21F	22800-021	5	10	8	0.401	2.0557	0.401	1.6	10	8	0.015	0.2488	0.015	0.199
UPRT21F	22800-021	6	10	9	0.401	3.0233	0.401	2.59	10	5	0.015	0.256	0.015	0.128
UPRT21F	22800-021	7	11	11	0.401	1.9686	0.401	1.97	10	5	0.015	0.29	0.015	0.145
UPRT21F	22800-021	8	10	9	0.401	2.007	0.401	1.61	10	7	0.015	0.4529	0.015	0.317
UPRT21G	22800-022	1	10	9	0.401	1.5012	0.401	1.33	10	8	0.015	0.385	0.015	0.308
UPRT21G	22800-022	2	10	8	0.401	1.745	0.401	1.16	10	8	0.015	0.4825	0.015	0.386
UPRT21G	22800-022	3	10	9	0.401	na[e]	0.401	na[e]	10	3	0.015	0.3333	0.015	0.1
UPRT21G	22800-022	4	10	3	0.401	2.3733	0.401	0.712	10	8	0.015	0.4112	0.015	0.329
UPRT21G	22800-022	5	10	9	0.401	1.48	0.401	1.32	10	8	0.015	0.3375	0.015	0.27
UPRT21G	22800-022	6	10	10	0.401	1.9883	0.401	1.99	10	1	0.015	1.65	0.015	0.165
UPRT21G	22800-022	7	10	8	0.401	1.7843	0.401	1.39	10	6	0.015	0.2883	0.015	0.173
UPRT21G	22800-022	8	10	10	0.401	1.113	0.401	1.11	10	8	0.015	0.3625	0.015	0.29
UPRT22A	22800-023	1	10	8	0.401	1.5086	0.401	1.17	10	9	0.015	0.4344	0.015	0.391
UPRT22A	22800-023	2	10	4	0.401	2.8725	0.401	1.15	10	6	0.015	0.28	0.015	0.168
UPRT22A	22800-023	3	11	11	0.401	1.373	0.401	1.37	10	10	0.015	0.475	0.015	0.475
UPRT22A	22800-023	4	10	9	0.401	1.487	0.401	1.32	10	7	0.015	0.3571	0.015	0.25
UPRT22A	22800-023	5	10	7	0.401	1.6233	0.401	1.08	10	8	0.015	0.2863	0.015	0.229
UPRT22A	22800-023	6	10	8	0.401	1.978	0.401	1.41	10	8	0.015	0.3713	0.015	0.297
UPRT22A	22800-023	7	10	5	0.401	2.425	0.401	0.693	10	8	0.015	0.3587	0.015	0.287
UPRT22A	22800-023	8	10	5	0.401	2.467	0.401	1.1	10	8	0.015	0.2763	0.015	0.221
UPRT22B	22800-024	1	10	8	0.401	1.2586	0.401	0.979	10	5	0.015	0.702	0.015	0.351
UPRT22B	22800-024	2	10	9	0.401	1.8214	0.401	1.59	10	6	0.015	0.4883	0.015	0.293
UPRT22B	22800-024	3	10	8	0.401	1.935	0.401	1.29	10	7	0.015	0.5543	0.015	0.388
UPRT22B	22800-024	4	10	6	0.401	2.025	0.401	1.22	10	7	0.015	0.4671	0.015	0.327
UPRT22B	22800-024	5	10	8	0.401	1.78	0.401	1.42	10	6	0.015	0.3633	0.015	0.218
UPRT22B	22800-024	6	10	8	0.401	1.7229	0.401	1.34	10	9	0.015	0.3233	0.015	0.291
UPRT22B	22800-024	7	10	10	0.401	1.6412	0.401	1.64	10	5	0.015	0.326	0.015	0.163
UPRT22B	22800-024	8	10	8	0.401	1.91	0.401	1.36	10	2	0.015	0.44	0.015	0.088

AFDW ash free dry weight ID identification na not available

[a] Chironomus weight is calculated as the total AFDW for each replicate divided by the number of surviving larvae

[b] Chironomus biomass is calculated as the total AFDW for each replicate divided by the initial number of organisms introduced into the test chamber minus the number of organisms that either emerged or pupated during the test.

[c] Hyalella weight is the total weight for each replicate divided by the number of survivors.

[d] Hyalella biomass is the total weight for each replicate divided by the initial number of organisms introduced into the test chamber.

2012 Sediment Toxicity Reference Data for the LPRSA

Sediment Toxicity Test Reference Data, shown by replicate

Location ID	Laboratory Sample ID	Bioassay Lab Replicate ID	*Chironomus dilutus* 10-day survival and growth						*Hyalella azteca* 28-day survival and growth					
			Survival		**Weight[a] (mg)**		**Biomass[b] (mg)**		**Survival**		**Weight[c] (mg)**		**Biomass[d] (mg)**	
			Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final

[e] Weight and biomass data are not available because the organisms were dropped before weight data could be obtained.

[f] Weight data cannot be calculated because there were no survivors.

[g] No data are available because the test chamber was lost during end of test procedures.

2012 Sediment Toxicity Test Reference Data for the LPRSA

Sediment Toxicity Test Reference Data, shown by location

Location ID	Laboratory Sample ID	*Chironomus dilutus* 10-day survival and growth						*Hyalella azteca* 28-day survival and growth					
		Survival (%)		**Weight[a] (mg)**		**Biomass[b] (mg)**		**Survival (%)**		**Weight[c] (mg)**		**Biomass[d] (mg)**	
		Mean	StDev	Mean	StDev	Mean	StDev	Mean	StDev	Mean	StDev	Mean	StDev
Lab Control	22800-000	98	4.6	1.88	0.313	1.82	0.354	90	11	0.625	0.108	0.56	0.108
UPRT18H	22800-002	94	5.2	1.55	0.392	1.41	0.315	85	13	0.311	0.073	0.264	0.0723
UPRT18I	22800-001	71	24	1.71	0.329	1.17	0.366	73	26	0.253	0.0648	0.177	0.071
UPRT18J	22800-003	89	14	1.54	0.234	1.36	0.418	90	5.3	0.334	0.0624	0.302	0.0643
UPRT18K	22800-004	86	7.4	1.47	0.0796	1.25	0.156	75	15	0.376	0.0859	0.279	0.069
UPRT19J	22800-005	3.8	11	na[e]	na[e]	na[e]	na[e]	0	0	na[f]	na[f]	0	0
UPRT19K	22800-006	74	24	1.69	0.172	1.17	0.327	89	9.9	0.385	0.0616	0.346	0.0904
UPRT19L	22800-007	78	13	1.64	0.26	1.26	0.284	65	21	0.341	0.134	0.232	0.131
UPRT19M	22800-008	80	15	1.69	0.356	1.34	0.152	44	23	0.345	0.0315	0.148	0.0736
UPRT20A	22800-009	79	20	1.91	0.486	1.38	0.319	60	30	0.252	0.0722	0.146	0.0809
UPRT20B	22800-010	80	16	1.95	0.469	1.48	0.435	75	28	0.351	0.121	0.243	0.108
UPRT20C	22800-011	90	5.3	1.77	0.286	1.55	0.316	76	21	0.394	0.115	0.306	0.135
UPRT20D	22800-012	79	23	1.58	0.427	1.16	0.311	74	29	0.318	0.123	0.242	0.121
UPRT20E	22800-013	85	16	1.64	0.226	1.35	0.328	66	14	0.337	0.114	0.226	0.0922
UPRT20F	22800-014	54	17	1.21	0.423	0.651	0.366	1.3	3.5	0.07	na[g]	0.0009	0.0025
UPRT20G	22800-015	85	12	1.76	0.357	1.49	0.42	68	15	0.291	0.127	0.199	0.105
UPRT21A	22800-016	89	8.3	1.7	0.473	1.44	0.343	69	18	0.321	0.0882	0.218	0.0663
UPRT21B	22800-017	79	9.9	2.23	0.576	1.66	0.447	19	19	0.201	0.124	0.0488	0.068
UPRT21C	22800-018	73	8.9	1.96	0.387	1.24	0.336	78	7.1	0.353	0.0487	0.273	0.0335
UPRT21D	22800-019	71	17	2.07	0.329	1.32	0.199	63	25	0.275	0.113	0.176	0.103
UPRT21E	22800-020	84	14	1.64	0.164	1.3	0.424	58	22	0.269	0.101	0.159	0.0923
UPRT21F	22800-021	88	8.9	2.23	0.365	1.87	0.366	73	17	0.343	0.0717	0.254	0.0909
UPRT21G	22800-022	83	23	1.71	0.404	1.29	0.384	63	28	0.531	0.456	0.253	0.0969
UPRT22A	22800-023	70	21	1.97	0.56	1.16	0.227	80	12	0.355	0.0732	0.29	0.0996
UPRT22B	22800-024	81	11	1.76	0.237	1.35	0.209	59	20	0.458	0.128	0.265	0.101

AFDW ash free dry weight ID identification na not available

[a] Chironomus weight is calculated as the total AFDW for each replicate divided by the number of surviving larvae

[b] Chironomus biomass is calculated as the total AFDW for each replicate divided by the initial number of organisms introduced into the test chamber minus the number of organisms that emerged/pupated during the test.

[c] Hyalella weight is the total weight for each replicate divided by the number of survivors.

[d] Hyalella biomass is the total weight divided by the initial number of organisms introduced into the test chamber.

[e] Weight and biomass data are not available because only one replicate has survivors and the weigh pan for that replicate was dropped before it could be weighed.

[f] Weight data cannot be calculated because there were no survivors.

[g] Standard deviation cannot be calculated because only one replicate had survivors.

Available Sediment Toxicity Test Reference Data for Jamaica Bay with Associated Sediment Chemistry Data

Dataset	Area of Interest	Study	Location	*Ampelisca abdita* survival (percent of control)
Regional sediment (estuarine non-SQT)	Jamaica Bay	CARP Sediment Ambient Study 1998-1999	2200_46_JBA11	97.96
Regional sediment (estuarine non-SQT)	Jamaica Bay	NCA Prog New York/New Jersey Harbor 2005	2300_M5_NY05-0002	59.6
Regional sediment (estuarine non-SQT)	Jamaica Bay	NCA Prog New York/New Jersey Harbor 2005	2300_M5_NY05-0010	100
Regional sediment (estuarine SQT)	Jamaica Bay	NCA Prog New York/New Jersey Harbor 2000	2300_M0_NY-0029-A	95.7
Regional sediment (estuarine SQT)	Jamaica Bay	NCA Prog New York/New Jersey Harbor 2001	2300_M1_NY-0032-A	98.9
Regional sediment (estuarine SQT)	Jamaica Bay	NCA Prog New York/New Jersey Harbor 2002	2300_M2_NY-0029-A	90.2
Regional sediment (estuarine SQT)	Jamaica Bay	NCA Prog New York/New Jersey Harbor 2002	2300_M2_NY-0235-A	90.4
Regional sediment (estuarine SQT)	Jamaica Bay	NCA Prog New York/New Jersey Harbor 2002	2300_M2_NY-0239-A	78.7
Regional sediment (estuarine SQT)	Jamaica Bay	NCA Prog New York/New Jersey Harbor 2003	2300_M3_NY03-0236	86.7
Regional sediment (estuarine SQT)	Jamaica Bay	NCA Prog New York/New Jersey Harbor 2004	2300_M4_NY04-0234	94.8
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB008	62
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB018	33
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB026	0
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB031	96
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB033	0
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB039	100
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB041	93
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB042	101
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB043	89
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB201	93
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB202	100
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB203	92
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB204	77
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB205	86
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB206	97
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB207	98
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB209	102
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB210	88
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB211	73
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB212	100
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB213	95
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB214	94
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB215	39
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB216	4
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB217	100
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB219	101
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB222	94
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 1998	2200_56_JB223	14
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1993	2200_26_JB002	96
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1993	2200_26_JB006	91
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1993	2200_26_JB008	53
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1993	2200_26_JB012	0
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1993	2200_26_JB015	38
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1993	2200_26_JB018	81
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1993	2200_26_JB022	104
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1993	2200_26_JB026	108
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1993	2200_26_JB031	92
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1993	2200_26_JB033	94
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1993	2200_26_JB039	38
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1993	2200_26_JB041	69
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1993	2200_26_JB042	103
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1993	2200_26_JB043	74
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1994	2200_27_JB101	98
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1994	2200_27_JB103	93
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1994	2200_27_JB104	80
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1994	2200_27_JB106	92
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1994	2200_27_JB108	96
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1994	2200_27_JB110	99
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1994	2200_27_JB111	97
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1994	2200_27_JB112	98
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1994	2200_27_JB113	95
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1994	2200_27_JB114	97
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1994	2200_27_JB115	94
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1994	2200_27_JB117	100
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1994	2200_27_JB119	98
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP, 1994	2200_27_JB120	100
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB301	73
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB303	101
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB305	100
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB306	101
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB307	101
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB309	3

Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB310	3
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB313	81
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB315	11
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB316	11
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB317	91
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB319	90
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB322	81
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB323	41
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB354	21
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB358	54
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB359	74
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB361	61
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB364	82
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB366	1
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB367	7
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB368	68
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB371	14
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB372	80
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB374	73
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB380	78
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB381	70
Regional sediment (estuarine SQT)	Jamaica Bay	REMAP 2003	JB386	89

Available Sediment Toxicity Test Reference Data for Mullica River/Great Bay Estuary with Associated Sediment Chemistry Data

Dataset	Area of Interest	Study	Location
Regional sediment (estuarine non-SQT)	Mullica River and Great Bay	1999 Late Summer/Early Fall RI-ESP Sampling Progra	MR9921SDM-TSI
Regional sediment (estuarine non-SQT)	Mullica River and Great Bay	1999 Late Summer/Early Fall RI-ESP Sampling Progra	MR9922SDM-TSI
Regional sediment (estuarine non-SQT)	Mullica River and Great Bay	1999 Late Summer/Early Fall RI-ESP Sampling Progra	MR9923SDM-TSI
Regional sediment (estuarine non-SQT)	Mullica River and Great Bay	EMAP-Delaware Bay 1990	2300_13_90-118
Regional sediment (estuarine non-SQT)	Mullica River and Great Bay	EMAP-Delaware Bay 1990	2300_13_90-120
Regional sediment (estuarine non-SQT)	Mullica River and Great Bay	EMAP-Delaware Bay 1991	2300_14_91-348
Regional sediment (estuarine non-SQT)	Mullica River and Great Bay	EMAP-Delaware Bay 1991	2300_14_91-349
Regional sediment (estuarine non-SQT)	Mullica River and Great Bay	NCA Program New Jersey Atlantic Coast 2000	NJ00-0037
Regional sediment (estuarine SQT)	Mullica River and Great Bay	NCA Prog New Jersey Atlantic Coast 2003	2300_L3_NJ03-0038
Regional sediment (estuarine SQT)	Mullica River and Great Bay	NCA Prog New Jersey Atlantic Coast 2004	2300_L4_NJ04-0427
Regional sediment (estuarine SQT)	Mullica River and Great Bay	NCA Prog New Jersey Atlantic Coast 2004	2300_L4_NJ04-0429
Regional sediment (estuarine SQT)	Mullica River and Great Bay	NCA Prog New Jersey Atlantic Coast 2005	2300_L5_NJ05-0059
Regional sediment (estuarine SQT)	Mullica River and Great Bay	NCA Prog New Jersey Atlantic Coast 2006	2300_L6_NJ06-0015
Regional sediment (estuarine SQT)	Mullica River and Great Bay	NCA Prog New Jersey Atlantic Coast 2006	2300_L6_NJ06-0027
Regional sediment (estuarine SQT)	Mullica River and Great Bay	NCA Prog New Jersey Atlantic Coast 2006	2300_L6_NJ06-0035
Regional sediment (estuarine SQT)	Mullica River and Great Bay	NCA Program New Jersey Atlantic Coast 2000	NJ00-0035
Regional sediment (estuarine SQT)	Mullica River and Great Bay	NCA Program New Jersey Atlantic Coast 2000	NJ01-0036
Regional sediment (estuarine SQT)	Mullica River and Great Bay	NCA Program New Jersey Atlantic Coast 2000	NJ01-0038
Regional sediment (estuarine SQT)	Mullica River and Great Bay	NCA Program New Jersey Atlantic Coast 2001	NJ01-0116
Regional sediment (estuarine SQT)	Mullica River and Great Bay	NCA Program New Jersey Atlantic Coast 2001	NJ01-0118
Regional sediment (estuarine SQT)	Mullica River and Great Bay	NCA Program New Jersey Atlantic Coast 2001	NJ01-0122
Regional sediment (estuarine SQT)	Mullica River and Great Bay	NCA Program New Jersey Atlantic Coast 2002	NJ02-0227
Regional sediment (estuarine SQT)	Mullica River and Great Bay	NCA Program New Jersey Atlantic Coast 2002	NJ02-0229
Regional sediment (estuarine SQT)	Mullica River and Great Bay	NCA Program New Jersey Atlantic Coast 2002	NJ02-0230
Regional sediment (estuarine SQT)	Mullica River and Great Bay	NCCA Program 2010	NCCA10-2622
Regional sediment (freshwater non-SQT)	Mullica River	NCA Program New Jersey Atlantic Coast 2004	NJ04-0432
Regional sediment (freshwater SQT)	Mullica River	NCA Program New Jersey Atlantic Coast 2000	NJ00-0041
Regional sediment (freshwater SQT)	Mullica River	NCA Program New Jersey Atlantic Coast 2001	NJ01-0120
Regional sediment (freshwater SQT)	Mullica River	NCA Program New Jersey Atlantic Coast 2002	NJ02-0232
Regional sediment (freshwater SQT)	Mullica River	NCA Program New Jersey Atlantic Coast 2006	NJ06-0046

Ampelisca abdita survival (percent of control)
107
103
103
60
69
95.7
89.4
77.7
88
90.1
95.7
92.9
100
94.8
100
98.9
98.9
101
92.2
84.4
97.9
100
91.5
107
85.9
79.6
85.1
89.5
87.2
41.8

APPENDIX M. LPRSA BENTHIC SPECIES LIST

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Table M1. Database of Biological Traits of Benthic Invertebrates of the LPRSA (and area Above Dundee Dam)

Taxonomy[(a)]					Ecology			
Lowest Practical Taxon	Phylum, Subphylum, or Class	Order or Subclass	Family or Suborder	Major Taxon	Notes on Ecology	Body Size (Length)	Mobility	Reproductive Notes
Ablabesmyia mallochi	Insecta	Diptera	Chironomidae	Chironomidae	Obligate predator (per Roback [1985] in reference to genus); collector-gatherer (as per Vieira et al. [2006] in reference to genus); generally small to moderate body size (2-15 mm)	Small to moderate (2-15 mm)	Mobile	Multivoltine
Ablabesmyia sp.	Insecta	Diptera	Chironomidae	Chironomidae	Obligate predator (per Roback [1985] in reference to genus); collector-gatherer (as per Vieira et al. [2006] in reference to genus); generally small to moderate body size (2-15 mm) (characteristics based on A. mollochi)	Small to moderate (2-15 mm)	Likely mobile	Multivoltine
Acari	Arachnida	Acari		Arachnida	Invertebrate parasite (mostly); small bodied, likely shallow if infaunal; swim or creep along rocks/vegetation; will burrow if necessary to escape harsh conditions	Small (<5 mm)	Mobile	Multivoltine, breed throughout the year
Actiniaria	Cnidaria	Actiniaria		Cnidaria	Tentaculate zooplankton predator; may burrow as deep as 30 to 35 cm; several are sessile and attach to hard surfaces epibenthically; Actiniaria as a group is quite diverse	Large	Immobile	Varies
Alboglossiphonia heteroclita	Annelida	Hirudinea	Glossiphoniidae	Annelida	Invertebrate parasite or predator; will eat some detrital matter; poor swimmers, move about with suckers; found primarily in shallow habitats	Small (9 mm)	Mobile	Bivoltine
Alitta succinea	Annelida	Polychaeta	Nereididae	Annelida	Burrow-dwelling deposit feeder and opportunistic omnivore; very large body size (up to 19 cm); up to 30 cm deep burrows; leave burrows *en masse* to spawn	Large to very large (up to 19 cm, but typically ~5 cm)	Low mobility	Univoltine or semivoltine; Reproduction is sexual, and mortality occurs after spawning
Ampelisca abdita	Crustacea	Amphipoda	Ampeliscidae	Crustacea	Shallow-burrowing filter feeder upon constructing tube; found over soft substrates soon after defaunation (Levinton 1982)	Small	Mobile	
Ampelisca sp.	Crustacea	Amphipoda	Ampeliscidae	Crustacea	Shallow-burrowing filter feeder upon constructing tube	Small	Mobile	
Amphipoda	Crustacea	Amphipoda		Crustacea	Surface feeder, sometimes from within superficial tubes; most are detritivores, although some feed on other items including plants, sediment, and live or dead animal tissues	Small to large (up to ~2.5 cm)	Mobile	Univoltine to multivoltine
Ancyronyx variegatus	Insecta	Coleoptera	Elmidae	Coleoptera	Collector, filterer, and scraper; most likely a surface feeder; small bodied (1-2 mm, generally > 1.4 mm); burrow	Small (1-2 mm)	Mobile	Univoltine
Antocha sp.	Insecta	Diptera	Tipulidae	Diptera	Surface-feeding collector-gatherer; feed on detritus, algae, and, in some species, other benthic invertebrates; Tipulidae are generally found under rocks, in sand, snags, or mats of litter or algae; Antocha saxicola is between 4 and 6 mm in length	Small (4-6 mm)	Likely mobile	Univoltine or multivoltine
Apocorophium lacustre	Crustacea	Amphipoda	Corophiidae	Crustacea	A true deposit feeder also capable of filter feeding (selective deposit feeding); up to 10 cm depth	Small (5-6 mm)	Mobile	Multivoltine; 6 broods per life cycle
Apocorophium sp.	Crustacea	Amphipoda	Corophiidae	Crustacea	A true deposit feeder also capable of filter feeding (selective deposit feeding); up to 10 cm depth	Small (5-6 mm)	Mobile	Multivoltine; 6 broods per life cycle
Arcteonais lomondi	Annelida	Oligochaeta	Naididae	Annelida	Up to ~ 8 mm (based on several Naidid species), may be present at the sediment surface feeding on detritus	Small (8 mm)	Low mobility	Multivoltine, generally asexual budding every 2-3 d
Argia sp.	Insecta	Odonata	Coenagrionidae	Odonata	Engulfer; large-bodied damselfly species	Large (2.5-4 cm)	Mobile	Univoltine
Aulodrilus limnobius	Annelida	Oligochaeta	Tubificidae	Annelida	Organic components of substrate; may feed at depth (i.e., head-down); small body size (3-6 mm based on other Aulodrilus spp.)	Small (3-6 mm)	Low mobility	Reproduce by asexual budding
Aulodrilus pigueti	Annelida	Oligochaeta	Tubificidae	Annelida	Organic components of substrate; may feed at depth (i.e., head-down); small body size (3 mm)	Small (3 mm)	Low mobility	Reproduce by asexual budding
Aulodrilus pluriseta	Annelida	Oligochaeta	Tubificidae	Annelida	Organic components of substrate; may feed at depth (i.e., head-down); small body size (3-6 mm)	Small (3-6 mm)	Low mobility	Reproduce by asexual budding

Baetidae	Insecta	Ephemeroptera	Baetidae	Ephemeroptera	Collector-gatherer, scraper-grazer; able to swim against flowing current as well as drift downstream; able to increase length of time to hatching to avoid harsh conditions for larvae (e.g., high stream temperatures); able to burrow to avoid high flows	Small to moderate (3-12 mm)	Mobile	Univoltine or bivoltine
Baetis flavistriga	Insecta	Ephemeroptera	Baetidae	Ephemeroptera	Collector-gatherer, scraper-grazer; able to swim against flowing current as well as drift downstream; able to increase length of time to hatching to avoid harsh conditions for larvae (e.g., high stream temperatures); able to burrow to avoid high flows	Small (4-5 mm)	Mobile	Univoltine or bivoltine
Balanus sp.	Crustacea	Sessilia	Balanidae	Crustacea	Surface filter-feeder, attaches to hard substrate after larval stage and is sessile	Small to moderate (up to 20 mm)	Immobile	Multivoltine (up to 24/yr)
Bezzia/Palpomyia sp.	Insecta	Diptera	Ceratopogonidae	Diptera	Engulfer; burrow into soft sediment or algal growths; generally small bodied (2-15 mm); very thin bodies and nearly transparent	Small to moderate (2-15 mm)	Mobile	Multivoltine
Boccardia sp.	Annelida	Polychaeta	Spionidae	Annelida	Forms tubes in shells of living or dead organisms; likely a filter feeder	Moderate to large (1.0-2.8 cm)	Immobile	Multivoltine; reproduce throughout the year with extensive recruitment once per year
Brachyura	Crustacea	Decapoda	Pleocyemata	Crustacea	Group is diverse, although most are carnivorous scavengers and predators living primarily epibenthically although possibly burrowing to evade predators	Varies	Mobile	Varies
Bratislavia unidentata	Annelida	Oligochaeta	Naididae	Annelida	Up to ~ 8 mm (based on several Naidid species); surface feeding deposit feeder	Small (8 mm)	Low mobility	Multivoltine, generally asexual budding every 2-3 d
Caecidotea sp.	Crustacea	Isopoda	Asellidae	Crustacea	Shredder and scavenger feeding on leafy detritus and invertebrate matter; slow burrower and crawler	Moderate (16-20 mm)	Mobile	Univoltine or bivoltine
Callinectes sapidus	Crustacea	Decapoda	Portunidae	Crustacea	Feeds opportunistically, but primarily on animal matter; burrows to ~3-4 mm only in both sand and mud; present as adults in benthic habitat--larvae are pelagic	Large	Mobile	Bivoltine
Cardiocladius sp.	Insecta	Diptera	Chironomidae	Chironomidae	Larval invertebrate-engulfer; up to 11 mm long as larvae; feeds on other insect larvae; found in clear (less turbid) waters	Moderate (11-14 mm)	Mobile	Multivoltine
Ceratopogoninae	Insecta	Diptera	Ceratopogonidae	Diptera	Engulfer; burrow into soft sediment or algal growths; generally small to moderate body size (2-15 mm); very thin and nearly transparent; mobile predator	Small to moderate (2-15 mm)	Mobile	Multivoltine
Cheumatopsyche sp.	Insecta	Trichoptera	Hydropsychidae	Trichoptera	Filter-feeding omnivore, clinger; mostly a detritivore but will consume carrion and live animals opportunistically; dominant caddisfly taxon in disturbed streams	Small to moderate	Likely low mobility	Univoltine or bivoltine
Chiridotea almyra	Crustacea	Isopoda	Chaetiliidae	Crustacea	"Carrion" feeder; burrows into sand but likely feeds at surface; burrows ~ 1 cm; also consumes live amphipods and polychaetes	Small to moderate (4-14 mm)	Mobile	Univoltine (in the lab); breeding occurs year round
Chiridotea sp.	Crustacea	Isopoda	Chaetiliidae	Crustacea	Surface-feeding detritivore or predator, depending on species; burrows ~ 1 cm	Small to moderate (4-14 mm)	Mobile	Univoltine (in the lab); breeding occurs year round
Chironomini	Insecta	Diptera	Chironomidae	Chironomidae	Based on other chironomids	Small to moderate (18 mm)	Likely low mobility	Multivoltine
Chironomus sp.	Insecta	Diptera	Chironomidae	Chironomidae	Up to 4-6 cm burrows, collector-gatherer/shredder-herbivore	Small to moderate (18 mm)	Likely low mobility	Univoltine or bivoltine
Chthamalus fragilis	Crustacea	Sessilia	Chthamalidae	Crustacea	Suspension feeder; sessile; requires hard substrate; sometimes associated with biofouling communities (e.g., on boats); non-burrowing species	Small (5.5 mm at maturity)	Immobile	Multivoltine (7-10/ind)
Cladopelma sp.	Insecta	Diptera	Chironomidae	Chironomidae	Up to 7 mm long as larvae; associated with sand and muddy bottoms	Small (7 mm)	Likely low mobility	Multivoltine
Cladotanytarsus sp.	Insecta	Diptera	Chironomidae	Chironomidae	Collector-filterer; up to 5 mm long as larvae	Small (5 mm)	Likely low mobility	Bivoltine
Clinotanypus sp.	Insecta	Diptera	Chironomidae	Chironomidae	Engulfer; up to 15 mm long as larvae; prefer soft sediment and variable water quality; also consumes detritus	Small to moderate (9-16 mm)	Likely mobile	Multivoltine
Coenagrionidae	Insecta	Odonata	Coenagrionidae	Odonata	Sits and waits for prey, but can move to search for food	Large (2-4 cm)	Mobile	Univoltine

Corbicula sp.	Bivalvia	Veneroida	Corbiculidae	Bivalvia	Filter feeder; fish parasites as larvae; may move a fair distance but slowly	Large (3-5 cm)	Low to moderate mobility	Bivoltine
Corophiidae	Crustacea	Amphipoda	Corophiidae	Crustacea	Mobile, shallow-burrowing amphipods; scrape sediment into burrows, where it is then sorted and consumed	Small (5-6 mm)	Mobile	Multivoltine; 6 broods per life cycle
Corynoneura sp.	Insecta	Diptera	Chironomidae	Chironomidae	Collector-gatherer; larvae no longer than 3 mm	Small (3 mm)	Likely low mobility	Multivoltine (7-8/yr)
Crangon septemspinosa	Crustacea	Decapoda	Crangonidae	Crustacea	Primarily carnivorous but also consume detritus, etc.	Large	Mobile	Semi- or univoltine, likely
Crassostrea virginica	Bivalvia	Ostreoida	Ostreidae	Bivalvia	Filter-feeder; forms reefs with other oysters over hard substrates (epibenthic); larval life stage is planktonic	Large	Immobile	
Crayfish (unspecified)	Crustacea	Decapoda		Crustacea	Allochthonous, autochthonous, living, dead animal and plant tissues; "crayfish" could refer to several families of decapods within the Astacoidea or Parastacoidea superfamilies	Large	Mobile	Typically slower reproducers among benthic invertebrates
Cricotopus bicinctus	Insecta	Diptera	Chironomidae	Chironomidae	Up to 8 mm long as larvae; associated with aquatic macrophytes, algae, and cyanobacteria	Small (8 mm)	Likely mobile	Multivoltine
Cricotopus sp.	Insecta	Diptera	Chironomidae	Chironomidae	Up to 8 mm long as larvae; associated with aquatic macrophytes, algae, and cyanobacteria	Small (8 mm)	Likely mobile	Multivoltine
Cricotopus trifascia	Insecta	Diptera	Chironomidae	Chironomidae	Up to 8 mm long as larvae; associated with aquatic macrophytes, algae, and cyanobacteria	Small (8 mm)	Likely mobile	Multivoltine
Cryptochironomus sp.	Insecta	Diptera	Chironomidae	Chironomidae	Moderately sized invertebrate-engulfer and oligochaete-piercer; larvae up to 15 mm long	Moderate (15 mm)	Likely mobile	Multivoltine
Culicidae	Insecta	Diptera	Culicidae	Diptera	Collector-filterer, grazer; few species may be predators; mosquitoes are able to live in very temporary habitats and reproduce quickly	Small to moderate	Likely low mobility	Univoltine to multivoltine
Cyathura polita	Crustacea	Isopoda	Anthuridae	Crustacea	Small-bodied, approximately 8 mm; may burrow up to 15 cm under ideal conditions	Small (8 mm)	Likely low mobility	Univoltine
Dero digitata	Annelida	Oligochaeta	Naididae	Annelida	Up to ~ 8 mm (based on several Naidid species); surface feeding deposit feeder	Small (8 mm)	Low mobility	Multivoltine, generally asexual budding every 2-3 d
Dero sp.	Annelida	Oligochaeta	Naididae	Annelida	Up to ~ 8 mm (based on several Naidid species); surface feeding deposit feeder	Small (8 mm)	Low mobility	Multivoltine, generally asexual budding every 2-3 d
Desserobdella phalera	Annelida	Hirudinea	Glossiphoniidae	Annelida	Parasites of large taxa (e.g., fish, birds, turtles) or predators of invertebrates; tend to be semelparous and sexual; 2 generations are produced within a population each year	Small to moderate (9-16 mm)	Mobile	Bivoltine
Dicrotendipes fumidus	Insecta	Diptera	Chironomidae	Chironomidae	Collector-gatherer, scraper, filterer; larvae up to 11 mm long	Moderate (11 mm)	Likely low mobility	Multivoltine (30/yr)
Dicrotendipes lucifer	Insecta	Diptera	Chironomidae	Chironomidae	Collector-gatherer, scraper, filterer; larvae up to 11 mm long	Moderate (11 mm)	Likely low mobility	Multivoltine (30/yr)
Dicrotendipes modestus	Insecta	Diptera	Chironomidae	Chironomidae	Collector-gatherer, scraper, filterer; larvae up to 11 mm long	Moderate (11 mm)	Likely low mobility	Multivoltine (30/yr)
Dicrotendipes neomodestus	Insecta	Diptera	Chironomidae	Chironomidae	Collector-gatherer, scraper, filterer; larvae up to 11 mm long	Moderate (11 mm)	Likely low mobility	Multivoltine (30/yr)
Dicrotendipes sp.	Insecta	Diptera	Chironomidae	Chironomidae	Collector-gatherer, scraper, filterer; larvae up to 11 mm long	Moderate (11 mm)	Likely low mobility	Multivoltine (30/yr)
Diptera	Insecta	Diptera		Diptera	Very diverse group of insects	Varies	Varies	Varies
Dolichopodidae	Insecta	Diptera	Dolichopodidae	Diptera	Generally in leaf litter as larvae	Small (9 mm)	Likely mobile	Likely semivoltine or univoltine
Dubiraphia sp.	Insecta	Coleoptera	Elmidae	Coleoptera	Herbivorous both as adults and larvae	Small (up to 3 mm)	Mobile	Semivoltine to univoltine
Edotia montosa	Crustacea	Isopoda	Idoteidae	Crustacea	Surface herbivore; may burrow up to ~5 cm	Small (<1cm)	Mobile	Univoltine (in the lab); breeding occurs year round

Edotia sp.	Crustacea	Isopoda	Idoteidae	Crustacea	Surface herbivore; may burrow up to ~5 cm	Small (<1cm)	Mobile	Univoltine (in the lab); breeding occurs year round
Enchytraeidae	Annelida	Oligochaeta	Enchytraeidae	Annelida	Subsurface deposit feeder	Moderate to large (>16 mm)	Low mobility	Multivoltine; fission-based reproduction over a period of 10 to 122 days; sexual reproduction over a period of 22 days
Ephydridae	Insecta	Diptera	Ephydridae	Diptera	Mostly scraper-grazer with some predators; generally found in mud or on algal or detrital mats; small to moderate body size (1-14 mm)	Small to moderate (1-14 mm)	Likely varies	Semivoltine or univoltine
Eriocheir sinensis	Crustacea	Decapoda	Varunidae	Crustacea	Epibenthic omnivore, carnivore/detritivore; large; mobile; euryhaline distribution with catadromous life cycle (mostly in fresh or brackish water); mortality occurs after reproduction; benthic only as juveniles and adults (larvae are pelagic) during which point individuals enter estuaries and rivers; lifes 1-5 yr	Large	Mobile	Semivoltine (1 gen/3 yr)
Erioptera sp.	Insecta	Diptera	Tipulidae	Diptera	Collector-gatherer; Tipulidae are generally found under rocks, in sand, snags, or mats of litter or algae; may be small to fairly large (3-60 mm)	Small to large (3-60 mm)	Likely mobile	Univoltine or multivoltine
Erpobdella sp.	Annelida	Hirudinea	Erpobdellidae	Annelida	Predators of invertebrates; tend to be semelparous and sexual; 2 generations are produced within a population each year	Moderate to very large (13 to 1000 mm)	Mobile	Bivoltine
Erpobdellidae	Annelida	Hirudinea	Erpobdellidae	Annelida	Predators of invertebrates; tend to be semelparous and sexual; 2 generations are produced within a population each year	Moderate to very large (13 to 1000 mm)	Mobile	Bivoltine
Ferrissia sp.	Gastropoda	Gastropoda	Planorbidae	Gastropoda	Scraper-grazer; attaches to stones; breathes air	Small (7 mm)	Mobile	Multivoltine (2-3/yr)
Fossaria sp.	Gastropoda	Gastropoda	Lymnaeidae	Gastropoda	Scraper-grazer of films; possible consumption of dead tissues if available; breath air at the water surface	Moderate (13 mm)	Mobile	Multivoltine (2-3/yr)
Gammaridae	Crustacea	Amphipoda	Gammaridae	Crustacea	Mostly detritivorous, but some are predatory or true omnivores	Moderate to large (10-25 mm)	Mobile	Univoltine to multivoltine
Gammarus minus	Crustacea	Amphipoda	Gammaridae	Crustacea	Shredder; moderate size, likely with a univoltine or multivoltine reproductive cycle; live less than one year	Moderate (14 mm)	Mobile	Univoltine to multivoltine
Gammarus mucronatus	Crustacea	Amphipoda	Gammaridae	Crustacea	Generalist grazer, omnivory possible	Moderate to large (10-25 mm)	Mobile	Univoltine to multivoltine
Gammarus sp.	Crustacea	Amphipoda	Gammaridae	Crustacea	Generalist grazer, omnivory possible	Moderate to large (10-25 mm)	Mobile	Univoltine to multivoltine
Gastropoda	Gastropoda	Gastropoda		Gastropoda	Generally scraper-grazer	Varies	Typically mobile	Typically univoltine or bivoltine
Glycera dibranchiata	Annelida	Polychaeta	Glyceridae	Annelida	Burrowing is extensive, and feeding occurs while burrowing; burrows appear to be permanent; appear to be large-bodied (several cm in length)	Large	Low mobility	Reproduce by asexual budding
Glycinde solitaria	Annelida	Polychaeta	Goniadidae	Annelida	Burrow to a depth of 8 cm under controlled conditions	Large	Mobile	
Glyptotendipes sp.	Insecta	Diptera	Chironomidae	Chironomidae	Collector-gatherer, chewer, herbivore; ~2 cm burrows	Small to moderate (9-16 mm)	Likely low mobility	Univoltine
Grandidierella bonnieroides	Crustacea	Amphipoda	Aoridae	Crustacea	Scrape plant surfaces of thin detritus layers (i.e., shallow or epibenthic); associated with aquatic vegetation and interstices of coarse grained sediment (cobble, etc.); about 6-7 mm at oldest stage; tolerant of changes in salinity	Small (6-7 mm)	Mobile	Multivoltine; generation time is ~1 mo
Haminoea solitaria	Gastropoda	Gastropoda	Haminoeidae	Gastropoda	Herbivore, dwelling on mudflats or in coralline turf; grazers of periphyton	Moderate (20 mm)	Mobile	Reproduce throughout the year (recruitment was observed twice per year)
Harnischia sp.	Insecta	Diptera	Chironomidae	Chironomidae	Collector-gatherer, scraper-grazer, clinger; larvae up to 9 mm long; associated with soft sediments	Small (9 mm)	Mobile	Multivoltine
Helobdella elongata	Annelida	Hirudinea	Glossiphoniidae	Annelida	Parasites of large taxa (e.g., fish, birds, turtles) or predators of invertebrates; tend to be semelparous and sexual; 2 generations are produced within a population each year	Small to moderate (9-16 mm)	Mobile	Bivoltine

Helobdella fusca	Annelida	Hirudinea	Glossiphoniidae	Annelida	Parasites of large taxa (e.g., fish, birds, turtles) or predators of invertebrates; tend to be semelparous and sexual; 2 generations are produced within a population each year	Small to moderate (9-16 mm)	Mobile	Bivoltine
Helobdella papillata	Annelida	Hirudinea	Glossiphoniidae	Annelida	Parasites of large taxa (e.g., fish, birds, turtles) or predators of invertebrates; tend to be semelparous and sexual; 2 generations are produced within a population each year	Small to moderate (9-16 mm)	Mobile	Bivoltine
Helobdella sp.	Annelida	Hirudinea	Glossiphoniidae	Annelida	Parasites of large taxa (e.g., fish, birds, turtles) or predators of invertebrates; tend to be semelparous and sexual; 2 generations are produced within a population each year	Small to moderate (9-16 mm)	Mobile	Bivoltine
Helobdella stagnalis	Annelida	Hirudinea	Glossiphoniidae	Annelida	Parasites of large taxa (e.g., fish, birds, turtles) or predators of invertebrates; tend to be semelparous and sexual; 2 generations are produced within a population each year	Small to moderate (9-16 mm)	Mobile	Bivoltine
Hemerodromia sp.	Insecta	Diptera	Empididae	Diptera	Engulfer	Small (7 mm)	Likely mobile	Likely semivoltine or univoltine
Heteromastus filiformis	Annelida	Polychaeta	Capitellidae	Annelida	Surface deposit feeder, deep burrowing (up to 15-30 cm and into anoxic sediment)	Large	Low mobility	
Hirudinea	Annelida	Hirudinea		Annelida	Parasites of large taxa (e.g., fish, birds, turtles) or predators of invertebrates; tend to be semelparous and sexual; 2 generations are produced within a population each year	Moderate to large	Mobile	Bivoltine
Hobsonia florida	Annelida	Polychaeta	Ampharetidae	Annelida	Tentaculate surface deposit feeder; moderate body size (up to 15 mm); mucus-lined tube builders; tolerant of salinity; consumed by gammarids; earliest colonizers, later replaced by amphipods and other polychaetes	Small to moderate (8-15 mm)	Immobile	Likely reproduce and settle rapidly (after disturbance)
Hobsonia sp.	Annelida	Polychaeta	Ampharetidae	Annelida	Tentaculate surface deposit feeder; moderate body size (up to 15 mm); mucus-lined tube builders; tolerant of salinity; consumed by gammarids; earliest colonizers, later replaced by amphipods and other polychaetes	Small to moderate (8-15 mm)	Immobile	Likely reproduce and settle rapidly (after disturbance)
Hyalella sp.	Crustacea	Amphipoda	Hyalellidae	Crustacea	Scavenging shredder-grazer	Small (6 mm)	Mobile	Multivoltine (15/0.5 yr)
Hydrobiidae	Gastropoda	Gastropoda	Hydrobiidae	Gastropoda	Shredder-grazer; potential scraper and carnivore (if available) but less likely; found epibenthically, creeping on submerged surfaces and plants; will burrow to avoid drought conditions	Small (7 mm)	Mobile	Multivoltine (2-3/yr)
Hydropsyche bronta	Insecta	Trichoptera	Hydropsychidae	Trichoptera	Collector-filterer	Small to moderate	Mobile	Univoltine or bivoltine
Hydropsyche morosa	Insecta	Trichoptera	Hydropsychidae	Trichoptera	Collector-filterer	Small to moderate	Mobile	Univoltine or bivoltine
Hydropsyche sp.	Insecta	Trichoptera	Hydropsychidae	Trichoptera	Various (collector-gatherer, predator)	Small to moderate	Mobile	Univoltine or bivoltine
Hydropsychidae	Insecta	Trichoptera	Hydropsychidae	Trichoptera	Various (collector-gatherer, predator)	Small to moderate	Mobile	Univoltine or bivoltine
Hydroptila sp.	Insecta	Trichoptera	Hydroptilidae	Trichoptera	Scraper-grazer	Small (3-6 mm)	Mobile	Univoltine
Hydroptilidae	Insecta	Trichoptera	Hydroptilidae	Trichoptera	Scraper-grazer	Small (3-6 mm)	Mobile	Univoltine
Hygrobates sp.	Arachnida	Trombidiformes	Hygrobatidae	Arachnida	Insect larvae parasite; swim or creep along rocks/vegetation; will burrow if necessary to escape harsh conditions	Small (<2 mm)	Mobile	Multivoltine, breed throughout the year
Hypereteone foliosa	Annelida	Polychaeta	Phyllodocidae	Annelida	Predator; typically found burrowed less than 10 cm, but may be found very deep (~25 cm); adapted for swimming; "errant"	Large	Mobile	
Hypereteone heteropoda	Annelida	Polychaeta	Phyllodocidae	Annelida	Predator; typically found burrowed less than 10 cm, but may be found very deep (~25 cm); adapted for swimming; "errant"	Large	Mobile	
Idoteidae	Crustacea	Isopoda	Idoteidae	Crustacea	Surface herbivore, feeds primarily on algae	Moderate (<20 mm)	Mobile	Univoltine
Ilyanassa obsoleta	Gastropoda	Gastropoda	Nassariidae	Gastropoda	Carnivorous and surface deposit feeding detritivore	Moderate to large (1.5-3 cm)	Mobile	Bivoltine

Ilyodrilus frantzi	Annelida	Oligochaeta	Tubificidae	Annelida	Moderate to large body size (1-3 cm) (based on I. templetoni)	Moderate to large (1-3 cm)	Low mobility	Breed year round either through asexual fission or sexual reproduction
Ilyodrilus templetoni	Annelida	Oligochaeta	Tubificidae	Annelida	Moderate to large body size (1-3 cm)	Moderate to large (1-3 cm)	Low mobility	Breed year round either through asexual fission or sexual reproduction
Koenikea sp.	Arachnida	Trombidiformes	Unionicolidae	Arachnida	Insect larvae and worm predator or parasite; swim or creep along rocks/vegetation; will burrow if necessary to escape harsh conditions	Small (<2 mm)	Mobile	Multivoltine, breed throughout the year
Laeonereis culveri	Annelida	Polychaeta	Nereididae	Annelida	Surface forager; gut contents found to contain detritus and sediment; assumed to consume primarily detritus and not sediment (due to sorting); may burrow to ~10 cm under ideal conditions; length is small to moderate (up to 20 mm)	Small to moderate (20 mm or less)	Low mobility	Reproduction is sexual, and mortality occurs after spawning
Laevapex fuscus	Gastropoda	Gastropoda	Ancylidae	Gastropoda	Scraper-grazer; attaches to stones	Small (7 mm)	Mobile but slow	Bivoltine
Lebertia sp.	Arachnida	Trombidiformes	Lebertiidae	Arachnida	Insect larvae parasite; also eat small invertebrates; swim or creep along rocks/vegetation; will burrow if necessary to escape harsh conditions	Small (<2 mm)	Mobile	Multivoltine, breed throughout the year
Leitoscoloplos fragilis	Annelida	Polychaeta	Orbiniidae	Annelida	Deep feeder between 1-10 cm near anoxic sediment	Large	Low mobility	
Lepidoptera	Insecta	Lepidoptera		Lepidoptera	Diverse taxon, although most are herbivorous shredders; larvae may scrape diatoms of coarse substrates; aquatic Lepidoptera mostly in Pyralidae (family) and Nymphulinae (subfamily); uni or bivoltine with 5 instars	Large	Mobile	Univoltine or bivoltine
Leptocheirus plumulosus	Crustacea	Amphipoda	Aoridae	Crustacea	Predominately filter feeding, but will switch to deposit feeding on surficial sediment and detritus; sexually mature in 3-4 weeks; likely shallow-burrowing, but can burrow fairly deep; 2 distinct reproductive cycles per year, with major event in spring/early summer	Moderate (1-2 cm)	Mobile	Bivoltine
Leucon americanus	Crustacea	Cumacea	Leuconidae	Crustacea	Shallow infaunal filter feeder, emerging diurnally to feed in the water column; ecology not well described in the literature	Small (0.5 to 2 mm)	Mobile	
Leucon sp.	Crustacea	Cumacea	Leuconidae	Crustacea	Shallow infaunal filter feeder, emerging diurnally to feed in the water column; ecology not well described in the literature	Small (0.5 to 2 mm)	Mobile	
Leucotrichia pictipes	Insecta	Trichoptera	Hydroptilidae	Trichoptera	Scraper-grazer, eats diatom films or fluff	Small (6 mm)	Mobile	Likely univoltine
Limnodrilus cervix	Annelida	Oligochaeta	Tubificidae	Annelida	Feed on bacteria in sediment; likely moderate body size (<2 cm)	Moderate (<2 cm)	Low mobility	Breed year round either through asexual fission or sexual reproduction
Limnodrilus claparedeianus	Annelida	Oligochaeta	Tubificidae	Annelida	Feed on bacteria in sediment; likely moderate body size (<2 cm)	Moderate (<2 cm)	Low mobility	Breed year round either through asexual fission or sexual reproduction
Limnodrilus hoffmeisteri	Annelida	Oligochaeta	Tubificidae	Annelida	Feed on bacteria in sediment; moderate to large body size (up to 2-3.5 cm, generally <2 cm)	Moderate to large (<2-3.5 cm)	Low mobility	Breed year round either through asexual fission or sexual reproduction
Limnodrilus udekemianus	Annelida	Oligochaeta	Tubificidae	Annelida	Feed on bacteria in sediment; likely moderate body size (<2 cm)	Moderate (<2 cm)	Low mobility	Breed year round either through asexual fission or sexual reproduction
Limnophyes sp.	Insecta	Diptera	Chironomidae	Chironomidae	Small body size (up to 6 mm as larvae); found in a variety of habitats; collector-gatherer	Small (6 mm)	Likely low mobility	Multivoltine
Lirceus sp.	Crustacea	Isopoda	Asellidae	Crustacea	Scavengers on detritus and animal matter; slow burrower and crawler	Large (25 mm)	Mobile	Univoltine or bivoltine
Lumbricina	Annelida	Oligochaeta		Annelida	Diverse group; crawlers; often large; consumers of detrital matter in and on sedmient (or soil)	Large	Low mobility	Varries
Lumbriculidae	Annelida	Oligochaeta	Lumbriculidae	Annelida	Diverse group; crawlers; often large; consumers of detrital matter in and on sedmient (or soil)	Large (10 cm)	Low mobility	Asexual fission reproduction throughout year with sexual reproduction in summer

Lymnaeidae	Gastropoda	Gastropoda	Lymnaeidae	Gastropoda	Scraper-grazer, omnivory possible	Moderate to large (12-35 mm)	Mobile	Univoltine to multivoltine (2-3/yr)
Macoma balthica	Bivalvia	Veneroida	Tellinidae	Bivalvia	Extend siphons above sediment surface and feed on detritus on the surface; burrow up to 5-6 cm but will reduce depth depending on conditions; Zwarts and Wanink (1989) report burrow depth range up to 12 cm; Hines and Comtois (1985) report burrows up to 30 cm; Aller and Yingst (1985) report typical burrowing depths of 4-6 cm. Gilbert (1973) reports maximum sizes of ~ 2.2 to 2.5 cm	Large (< 2.5 cm)	Immobile	
Macoma tenta	Bivalvia	Veneroida	Tellinidae	Bivalvia	Extend siphons above sediment surface and feed on detritus on the surface; generally found in upper 2 cm	Large	Immobile	
Macronychus glabratus	Insecta	Coleoptera	Elmidae	Coleoptera	Collector-gather, filterer	Small (3 mm)	Mobile	Semivoltine to univoltine
Manayunkia sp.	Annelida	Polychaeta	Sabellariidae	Annelida	Colonial tentacular feeder living in shallow tubes formed in sand or shell fragments	Small (4 mm)	Immobile	
Marenzelleria viridis	Annelida	Polychaeta	Spionidae	Annelida	Tube-dwelling deposit feeder; deep-burrowing; although deposit feeding, sometimes uses palp-feeding at the surface to sort nutrient-rich detritus	Large (4 cm or more)	Immobile	Likely multivoltine
Marinogammarus stoerensis	Crustacea	Amphipoda	Gammaridae	Crustacea	Likely moderate to large body size (based on other gammarids)	Moderate to large (10-25 mm)	Mobile	
Mediomastus sp.	Annelida	Polychaeta	Capitellidae	Annelida	Tube-dwelling subsurface deposit feeder; moderate to large body size (1-10 cm); associated with compact, soft sediments, typically at marine salinities; associated with Capitella capitata populations in Oregon	Moderate to large (1-10 cm)	Low mobility	Reproduces quickly with subsequent die off in summer
Melita nitida	Crustacea	Amphipoda	Melitidae	Crustacea	Mesohaline species, associated with algae and hydrozoan/oyster communities; often found hiding under boulders; lives on muddy bottoms; native to the US (northeast) tolerant of a range of temperatures, turbid water; associated with boat fouling communities and is invasive in other parts of the world	Small	Mobile	
Micromenetus dialatus	Gastropoda	Gastropoda	Planorbidae	Gastropoda	Surface or shallow subsurface sediment; scraper	Small (2-8 mm)	Mobile	Multivoltine (2-3/yr)
Micromenetus sp.	Gastropoda	Hygrophila	Planorbidae	Gastropoda	Surface or shallow subsurface sediment; scraper	Small (2-8 mm)	Mobile	Multivoltine (2-3/yr)
Microtendipes pedellus	Insecta	Diptera	Chironomidae	Chironomidae	Collector-gatherer; up to 15 mm long as larvae	Moderate (15 mm)	Likely low mobility	Multivoltine
Micrura sp.	Nemertea	Heteronemertea	Lineidae	Nemertea	Most nemerteans are active predators or scavengers; Micrura spp. do not appear particularly adapted for swimming so likely crawl to find prey or scavenge carrion; body is fragile and will break apart upon handling (and fragments will form clonal individuals)	Large to very large (2-20 cm)	Mobile	Reproduce through fission or sexually; development of body fragments is rapid
Mideopsis sp.	Arachnida	Trombidiformes	Mideopsidae	Arachnida	Insect larvae parasite; also eat small invertebrates; swim or creep along rocks/vegetation; will burrow if necessary to escape harsh conditions	Small (<2 mm)	Mobile	Multivoltine, breed throughout the year
Mud crab (unspecified)	Crustacea	Decapoda		Crustacea	"Mud crab" is a general term that is not related to any particular taxon; associated with mud, likely burrowing within the upper cm but not much deeper	Moderate to large, likely	Mobile	Unclear (taxon unspecified)
Mulinia lateralis	Bivalvia	Veneroida	Mactridae	Bivalvia	Between 15 and 20 mm in length; reach maturity in 1-2 mo; can be incredibly dense in sediment; filter feeder on mostly suspended bacteria	Moderate (1.5-2 cm)	Immobile	Multivoltine possible; mature within 1-2 mo; spawning any time between May and November
Mya arenaria	Bivalvia	Myoida	Myidae	Bivalvia	May burrow as deep as ~29 cm	Large	Immobile	
Mysidae	Crustacea	Mysida	Mysidae	Crustacea	Omnivorous filter feeders, which eat both smaller zooplankters and phytoplankton as well as detritus; may migrate diurnally into the water column to feed	Typically small to moderate	Mobile	Multivoltine (3/yr)
Naididae	Annelida	Oligochaeta	Naididae	Annelida	Surface deposit feeders, mostly, but also filterers and predators; up to ~ 8 mm (based on several Naidid species)	Large	Low mobility	Multivoltine, generally asexual budding every 2-3 d
Nais bretscheri	Annelida	Oligochaeta	Naididae	Annelida	Surface feeder; up to ~ 8 mm (based on several Naidid species)	Small (8 mm)	Low mobility	Multivoltine, generally asexual budding every 2-3 d

Nais sp.	Annelida	Oligochaeta	Naididae	Annelida	Surface feeder; up to ~ 8 mm (based on several Nais spp.)	Small (8 mm)	Low mobility	Multivoltine, generally asexual budding every 2-3 d
Nanocladius sp.	Insecta	Diptera	Chironomidae	Chironomidae	Collector-gatherer; small as larvae (up to 5 mm); some species may be parasitic	Small (5 mm)	Likely low mobility	Multivoltine
Nematoda	Nematoda	Nematoda		Nematoda	Likely very shallow sediment-dweller, parasite inside other benthic invertebrates, etc.; may increase reproductive rate under stress (or nematode community shifts to a community of faster-reproducing taxa); biological traits very among nematode taxa	Small	Low mobility	Able to use asexual fission
Nemertea	Nemertea	Nemertea		Nemertea	Diverse taxon, not well studied; freshwater taxa are moderate to large predators that move by crawling; release neurotoxin to capture prey; feed on oligochaetes mostly; reproduce quickly, multivoltine (as long as temp>10 C)	Varies (small to very large, a few mm to 20 cm in generall, but up to 30 meters is possible)	Mobile	Reproduce quickly, many times per year; multiple modes of reproduction are possible
Neomysis americana	Crustacea	Mysida	Mysidae	Crustacea	Omnivorous filter feeders, which eat both smaller zooplankters and phytoplankton as well as detritus	Small to moderate (8 to 18 mm as adults)	Mobile	Multivoltine (3/yr)
Nereididae	Annelida	Polychaeta	Nereididae	Annelida	Surface forager, typically; other strategies possible	Varies	Varies	
Neumania sp.	Arachnida	Trombidiformes	Unionicolidae	Arachnida	Insect larvae parasite; also eat small invertebrates; swim or creep along rocks/vegetation; will burrow if necessary to escape harsh conditions	Small (<2 mm)	Mobile	Multivoltine, breed throughout the year
Neuroptera	Insecta	Neuroptera		Neuroptera	Consume benthic invertebrates, typically sponges; only Sisyridae is present in North America; multivoltine, only 3 instars; emergent insect; no special adaptations for aquatic habitats, so probably quite sensitive to degraded water quality	Small (<8 mm)	Mobile	Multivoltine
Oecetis sp.	Insecta	Trichoptera	Leptoceridae	Trichoptera	Engulfer, primarily	Small to moderate (4-15 mm)	Mobile	Univoltine to bivoltine
Ophidonais serpentina	Annelida	Oligochaeta	Naididae	Annelida	Large (30 mm)	Large (30 mm)	Low mobility	Multivoltine, generally asexual budding every 2-3 d
Orconectes limosus	Crustacea	Decapoda	Cambaridae	Crustacea	Scavengers; mobile (swim short distances or crawl)	Large	Mobile	Likely univoltine
Orthocladius sp.	Insecta	Diptera	Chironomidae	Chironomidae	Generally collector-gatherer and scraper-grazer genus; larvae up to 12 mm long	Small to moderate (6-12 mm)	Likely low mobility	Univoltine or multivoltine
Ostracoda	Crustacea			Crustacea	Surface feeder; asexual, sexual, or mixed reproductive modes; may live up to 4 years, but typically only 0.5 to 1.5 years; salinity tolerant; may swim or move benthically depending on the species; burrow in the upper 2 cm of sediment; some sensitive to low DO; feed on detritus at the sediment surface, excluding fluff; typically associated with lower flows (higher detrital matter) but in areas with sufficient DO (so not anoxic clay/silt sediments)	Moderate (~1-2 cm)	Mobile	Multiple sexual modes;
Oxus sp.	Arachnida	Trombidiformes	Oxidae	Arachnida	Insect larvae parasite; also eat small invertebrates; swim or creep along rocks/vegetation; will burrow if necessary to escape harsh conditions	Small (<2 mm)	Mobile	Multivoltine, breed throughout the year
Palaemonetes pugio	Crustacea	Decapoda	Palaemonidae	Crustacea	Epibenthic omnivore, feeding on detritus, algae, or meat as available	Large (1.7-5 cm)	Mobile	
Parachironomus sp.	Insecta	Diptera	Chironomidae	Chironomidae	Larvae up to 12 mm long; several species may be ectoparasitic, herbivorous, or detritivorous	Moderate (12 mm)	Likely mobile	Multivoltine
Paracladopelma sp.	Insecta	Diptera	Chironomidae	Chironomidae	Larvae up to 10 mm long; associated with sandy habitat; generally intolerant of eutrophication according to Cranston (2010)	Moderate (10 mm)	Likely low mobility	Multivoltine
Parakiefferiella sp.	Insecta	Diptera	Chironomidae	Chironomidae	Collector-gatherer; small as larvae (up to 4 mm)	Small (4 mm)	Likely low mobility	Multivoltine
Paralauterborniella nigrohalteralis	Insecta	Diptera	Chironomidae	Chironomidae	Small as larvae (up to 5 mm); associated with soft sediment or Aufwuchs (i.e., overgrown periphyton/invertebrate communities around rocks or macrophytes)	Small (5 mm)	Likely low mobility	Multivoltine
Paraleptophlebia sp.	Insecta	Ephemeroptera	Leptophlebiidae	Ephemeroptera	Shredder, collector-gatherer	Small (6-10 mm)	Mobile	Univoltine

Paranais grandis	Annelida	Oligochaeta	Naididae	Annelida	Up to ~ 8 mm (based on several Naidid species); surface feeding deposit feeder	Small (8 mm)	Low mobility	Multivoltine, generally asexual budding every 2-3 d
Paranais litoralis	Annelida	Oligochaeta	Naididae	Annelida	Up to ~ 8 mm (based on several Naidid species); surface feeding deposit feeder	Small (8 mm)	Low mobility	Multivoltine, generally asexual budding every 2-3 d
Paranais sp.	Annelida	Oligochaeta	Naididae	Annelida	Up to ~ 8 mm (based on several Naidid species); surface feeding deposit feeder	Small (8 mm)	Low mobility	Multivoltine, generally asexual budding every 2-3 d
Paratanytarsus sp.	Insecta	Diptera	Chironomidae	Chironomidae	Collectors, filterers, or gatherers; larvae up to 7 mm long	Small (7 mm)	Likely low mobility	Univoltine or bivoltine
Paratendipes sp.	Insecta	Diptera	Chironomidae	Chironomidae	Collector-gatherer; larvae up to 8 mm long	Small (8 mm)	Likely low mobility	Univoltine
Pectinaria gouldii	Annelida	Polychaeta	Pectinariidae	Annelida	Head-down deep deposit feeder family; uses tentacular motion to create a water current that forces sediment past head within U-shaped burrow	Large (4-6 cm)	Low mobility	
Perioculoides sp.	Crustacea	Amphipoda	Oedicerotidae	Crustacea	Feed primarily on crustaceans and detritus; not well described in the literature		Likely mobile	
Petrophila sp.	Insecta	Lepidoptera	Crambidae	Lepidoptera	Scraper-grazer and herbivore feeding on undersides of rocks and SAV; typically found in well oxygenated habitats (flowing water, coarse substrate), do not burrow per se	Large	Mobile	Bivoltine (Dray et al. 1989 suggest multivoltine)
Phaenopsectra sp.	Insecta	Diptera	Chironomidae	Chironomidae	Scraper-grazer; larvae approximately 8 mm; associated with sandy or muddy bottoms, Aufwuchs	Small (8 mm)	Likely low mobility	Multivoltine
Physa sp.	Gastropoda	Gastropoda	Physidae	Gastropoda	Consume thin films on solid surfaces typically; potential to also consume detrital matter including carrion; fast moving relative to other gastropods; dense in areas where vegetation is moderate and there is organic debris	Small (<1cm)	Mobile	Multivoltine (2-3/yr)
Pisidium sp.	Bivalvia	Veneroida	Pisidiidae	Bivalvia	Burrowing suspension feeder or deposit feeder; may move a fair distance but slowly; may live less than 1 yr or up to 3-5 years rarely (typically between 1 and 1.5 year)	Small (4 mm)	Low to moderate mobility	
Planorbidae	Gastropoda	Gastropoda	Planorbidae	Gastropoda	Scraper-grazer and true detritivore	Small (2-8 mm)	Mobile	Multivoltine (2-3/yr)
Polinices sp.	Gastropoda	Gastropoda	Naticidae	Gastropoda	Shell-boring predator, mostly feeding on bivalves; has very large foot capable of plowing through surface sediment in search of food	Large	Mobile	Likely univoltine or bivoltine (based on other gastropods)
Polydora sp.	Annelida	Polychaeta	Spionidae	Annelida	Tentaculate surface feeder; burrows into hard substrates; Polydora spp. live approximately 13 months, but may last up to 31 months; large body size (approximately 1 in [or 2.5 cm long]);	Large (2.5 cm)	Likely low mobility	Multivoltine; mature within 1-2 mo, produce 8 broods/individual life time
Polypedilum flavum	Insecta	Diptera	Chironomidae	Chironomidae	Shredder, collector-gatherer; larvae approximately 8 mm; associated with sediment or hard substrates (i.e., foraging algae); predatory behavior possible	Small (8 mm)	Mobile	Multivoltine
Polypedilum halterale	Insecta	Diptera	Chironomidae	Chironomidae	Shredder, collector-gatherer; larvae approximately 8 mm; associated with sediment or hard substrates (i.e., foraging algae); predatory behavior possible	Small (8 mm)	Mobile	Multivoltine
Polypedilum illinoense	Insecta	Diptera	Chironomidae	Chironomidae	Shredder, collector-gatherer; larvae approximately 8 mm; associated with sediment or hard substrates (i.e., foraging algae); predatory behavior possible	Small (8 mm)	Mobile	Multivoltine
Polypedilum scalaenum	Insecta	Diptera	Chironomidae	Chironomidae	Shredder, collector-gatherer; larvae approximately 8 mm; associated with sediment or hard substrates (i.e., foraging algae); predatory behavior possible	Small (8 mm)	Mobile	Multivoltine
Polypedilum sp.	Insecta	Diptera	Chironomidae	Chironomidae	Shredder, collector-gatherer; larvae approximately 8 mm; associated with sediment or hard substrates (i.e., foraging algae); predatory behavior possible	Small (8 mm)	Mobile	Multivoltine
Portunidae	Crustacea	Decapoda	Portunidae	Crustacea	Primarily consume animal matter, but will also consume some plant matter	Large	Mobile	Varies
Potamothrix bavaricus	Annelida	Oligochaeta	Tubificidae	Annelida	Moderate to large body size (15-35 mm)	Moderate to large (1.5-3.5 cm)	Low mobility	Breed year round either through asexual fission or sexual reproduction
Procladius sp.	Insecta	Diptera	Chironomidae	Chironomidae	Engulfer; ~2 cm burrows	Small to moderate (9-16 mm)	Likely mobile	Multivoltine
Promenetus exacuous	Gastropoda	Gastropoda	Planorbidae	Gastropoda	Scraper-grazer and true detritivore	Small (2-8 mm)	Mobile	Multivoltine (2-3/yr)

Prostoma sp.	Nemertea	Hoplonemertea	Tetrastemmatidae	Nemertea	Invertebrate predator; consumes some detritus; Hoplonemertea use pointed stylets to stab prey items	Large (3 cm)	Mobile	Breeding occurs throughout the year
Pseudosmittia sp.	Insecta	Diptera	Chironomidae	Chironomidae	Small bodied (up to 5 mm as larvae); species is either P. oxoniana or P. ruttneri as these are the only two aquatic species in this genus	Small (5 mm)	Likely low mobility	Multivoltine
Psychoda sp.	Insecta	Diptera	Psychodidae	Diptera	Collector-filterer; small (3-6 mm); some Psychodidae associated with sewage streams or other organic-rich sediments	Small (3-6 mm)	Likely low mobility	Multivoltine
Psychodidae	Insecta	Diptera	Psychodidae	Diptera	Collector-gatherer; small (3-6 mm); some Psychodidae associated with sewage streams or other organic-rich sediments	Small (3-6 mm)	Likely low mobility	Multivoltine
Quistadrilus multisetosus	Annelida	Oligochaeta	Tubificidae	Annelida	Moderately to large body size (19-35 mm)	Moderate to large (1.9-3.5 cm)	Low mobility	Breed year round either through asexual fission or sexual reproduction
Rheotanytarsus exiguus	Insecta	Diptera	Chironomidae	Chironomidae	Collector-filterer; small larvae (up to 5 mm long); feed by constructing cases with silk nets that filter detritus from the water column (for feeding or constructing casings); cases are typically attached to hard substrates such as stones or SAV	Small (5 mm)	Likely low mobility	Univoltine or bivoltine
Rhithropanopeus harrisii	Crustacea	Decapoda	Panopeidae	Crustacea	Mud crab, moves about epibenthically scavenging on detritus and animal matter as available; assumed to burrow superficially into sediment (upper cm); mean life span for other panopeid mud crabs is between ~1-2 yr, but may be as high as 3.5 to 7 yrs in some individuals	Small to large (2-23 mm)	Mobile	Semivoltine to univoltine
Rictaxis punctostriatus	Gastropoda	Gastropoda	Acteonidae	Gastropoda	Small bodied; small bodied (3-7.5 mm); associated with muddy and sandy substrate; not well described in the literature	Small (3-7.5 mm)	Likely mobile	
Saetheria tylus	Insecta	Diptera	Chironomidae	Chironomidae	Small larvae (up to 5 mm); associated with sandy bottoms	Small (5 mm)	Likely low mobility	Multivoltine
Simulium sp.	Insecta	Diptera	Simuliidae	Diptera	Collector-filterer or scraper; generally found attached to rocks, logs, or other hard substrates	Small (3-10 mm)	Likely low mobility	Bivoltine to multivoltine (2-4/yr)
Slavina appendiculata	Annelida	Oligochaeta	Naididae	Annelida	Up to ~ 8 mm (based on several Naidid species); surface feeding deposit feeder	Small (8 mm)	Low mobility	Multivoltine, generally asexual budding every 2-3 d
Smittia sp.	Insecta	Diptera	Chironomidae	Chironomidae	Collector-filterer; small to medium sized relative to other larvae (not given quantitatively) (Cranston 2010); genus is almost exclusively terrestrial	Small to moderate	Likely low mobility	Multivoltine
Specaria josinae	Annelida	Oligochaeta	Naididae	Annelida	Up to ~ 8 mm (based on several Naidid species); surface feeding deposit feeder	Small (8 mm)	Low mobility	Multivoltine, generally asexual budding every 2-3 d
Sphaeriidae	Bivalvia	Veneroida	Sphaeriidae	Bivalvia	Surface suspension feeders that burrow during drought; may move a fair distance but slowly; may live less than 1 yr or up to 3-5 years rarely (typically between 1 and 1.5 year)	Moderate to large (10-48 mm)	Low to moderate mobility	Univoltine to multivoltine (1-3+/yr)
Spionidae	Annelida	Polychaeta	Spionidae	Annelida	Tentaculate surface feeder, associated with soft sediments; frequently dominate early communities;	Small, typically	Low mobility	Multivoltine; typically reproduce very quickly (budding)
Stempellinella sp.	Insecta	Diptera	Chironomidae	Chironomidae	Collector-gatherer; small as larvae (up to 3 mm); construct transportable cases	Small (3 mm)	Likely low mobility	Multivoltine
Stenacron sp.	Insecta	Ephemeroptera	Heptageniidae	Ephemeroptera	Collector-gatherer and opportunistic grazer; feeds on fluff particulate	Small to moderate (7-14 mm)	Likely low mobility	Multivoltine (3/2 yrs)
Stenelmis sp.	Insecta	Coleoptera	Elmidae	Coleoptera	Scraper-grazer, collector-gatherer	Small (<4 mm)	Mobile	Semivoltine to univoltine
Stenochironomus sp.	Insecta	Diptera	Chironomidae	Chironomidae	Collector-gatherer, shredder; larvae up to 18 mm long; obligate miners of living and dead herbaceous tissues including wood	Small to moderate (9-16 mm)	Likely low mobility	Multivoltine
Stictochironomus sp.	Insecta	Diptera	Chironomidae	Chironomidae	Collector-gatherer, shredder, and herbivore; larvae up to 14 mm long; associated with soft sediments or sand	Moderate (14 mm)	Likely low mobility	Multivoltine
Streblospio benedicti	Annelida	Polychaeta	Spionidae	Annelida	Tentaculate surface feeder and filter feeder; tube builder; moves short distances as adult	Small	Low mobility	Multivoltine; likely reproduce through budding, short generation time
Stylurus sp.	Insecta	Odonata	Gomphidae	Odonata	Large-bodied dragonfly species; ambush predator; can move very quickly for short bursts	Large (4.5-6 cm)	Mobile	Semivoltine

Synidotea laticauda	Crustacea	Isopoda	Idoteidae	Crustacea	Consume live animal tissue, carrion, and plant matter as available; estuarine taxa (e.g., at 4 to 22 ppt salinity in Delaware bay) (based on S. laevidorsalis); co-occuring with other crustacean communities (including Palaemonetes spp., Rhithropanopes harrisii, and amphipods); burrowing is limited in coarser substrate (i.e., not mud or clay)	Small to large (few mm up to ~3 cm)	Mobile	Univoltine (in the lab); breeding occurs year round
Synidotea sp.	Crustacea	Isopoda	Idoteidae	Crustacea	Consume live animal tissue, carrion, and plant matter as available; estuarine taxa (e.g., at 4 to 22 ppt salinity in Delaware bay) (based on S. laevidorsalis); co-occuring with other crustacean communities (including Palaemonetes spp., Rhithropanopes harrisii, and amphipods); burrowing is limited in coarser substrate (i.e., not mud or clay)	Small to large (few mm up to ~3 cm)	Mobile	Univoltine (in the lab); breeding occurs year round
Synorthocladius sp.	Insecta	Diptera	Chironomidae	Chironomidae	Small as larvae (up to 4 mm long)	Small (4 mm)	Likely low mobility	Multivoltine
Tanypus sp.	Insecta	Diptera	Chironomidae	Chironomidae	Engulfer and piercer; some species feed on algae; Larvae up to 10-12 mm; tolerant of high nutrients and salinity; may also be parasitic (i.e., feeding on fluids only) or herbivorous (Cranston 2010)	Moderate (10-12 mm)	Likely mobile	Multivoltine
Tanytarsini	Insecta	Diptera	Chironomidae	Chironomidae	Collector gatherer, scraper	Small to moderate (9-16 mm)	Likely low mobility	Univoltine or bivoltine
Tanytarsus sp.	Insecta	Diptera	Chironomidae	Chironomidae	Collector-gatherer; up to 9 mm long as larvae	Small (9 mm)	Likely low mobility	Univoltine
Telmatogeton sp.	Insecta	Diptera	Chironomidae	Chironomidae	Larvae up to 11 mm long; create tubes in green algae, and are territorial	Moderate (11 mm)	Likely low mobility	Multivoltine
Thienemanniella sp.	Insecta	Diptera	Chironomidae	Chironomidae	Collector-gatherer; small larvae (up to 3 mm); often associated with large pore spaces between stones and wood	Small (3 mm)	Likely low mobility	Multivoltine
Thienemannimyia sp.	Insecta	Diptera	Chironomidae	Chironomidae	Larvae up to 10 mm long; associated with sandy or muddy bottoms	Small (10 mm)	Likely mobile	Multivoltine
Tipula sp.	Insecta	Diptera	Tipulidae	Diptera	Shredder, collector gatherer; Tipulidae are generally found under rocks, in sand, snags, or mats of litter or algae; may be small to fairly large (3-60 mm); generally univoltine although some may be semivoltine	Small to large (3-60 mm)	Likely low mobility	Univoltine
Tubifex tubifex	Annelida	Oligochaeta	Tubificidae	Annelida	Feed on bacteria in sediment; can grow very large (up to 20 cm) and burrow; tube builder--may project tubes above sediment surface; reproduce faster in presence of high organic carbon	Large (6.5 cm or more)	Low mobility	Breed year round either through asexual fission or sexual reproduction
Tubificidae w/ capilliform setae	Annelida	Oligochaeta	Tubificidae	Annelida	Sediment ingesters, broad grouping	Varies	Varies	Varies
Tubificidae w/o capilliform setae	Annelida	Oligochaeta	Tubificidae	Annelida	Sediment ingester, broad grouping	Varies	Varies	Varies
Tubificoides brownae	Annelida	Oligochaeta	Tubificidae	Annelida	May live up to 10 cm deep in anoxic sediments; may be very large; tube builder--may project tubes above sediment surface	Large (6.5 cm or more)	Low mobility	Breed year round either through asexual fission or sexual reproduction
Tubificoides heterochaetus	Annelida	Oligochaeta	Tubificidae	Annelida	May live up to 10 cm deep in anoxic sediments; may be very large; tube builder--may project tubes above sediment surface	Large (6.5 cm or more)	Low mobility	Breed year round either through asexual fission or sexual reproduction
Tubificoides sp.	Annelida	Oligochaeta	Tubificidae	Annelida	May live up to 10 cm deep in anoxic sediments; may be very large; tube builder--may project tubes above sediment surface	Large (6.5 cm or more)	Low mobility	Breed year round either through asexual fission or sexual reproduction
Turbellaria	Turbellaria			Turbellaria	Scavengers of living and dead tissue (carrion); more abundant in shallow burrows <3 cm, but can be present up to 16 cm	Large	Mobile	Semivoltine
Tvetenia discoloripes	Insecta	Diptera	Chironomidae	Chironomidae	Collector-gatherer (based on genus); larvae up to 7 mm long	Small (7 mm)	Likely low mobility	Multivoltine
Valvata sp.	Gastropoda	Heterobranchia	Valvatidae	Gastropoda	Scraper-grazer of thin films on hard surfaces	Small (5-8 mm)	Mobile	Bivoltine to multivoltine (2-3/yr), hermaphroditic
Vejdovskyella intermedia	Annelida	Oligochaeta	Naididae	Annelida	Up to ~ 8 mm (based on several Naidid species); surface feeding deposit feeder	Small (8 mm)	Low mobility	Multivoltine, generally asexual budding every 2-3 d

N/A -- not applicable

Notes:

(a). Cells were left blank if an appropriate taxon could not be assigned at the specified level of classification; multiple levels of taxonomy were included in each column to allow for

(b). All taxa in this database were either observed in the LPRSA or above Dundee Dam (or both) (Windward 2010, 2011, 2014a, 2014b, 2012). Many of these taxa are also present in Newark Bay. Presence is indicated with the symbol "X"

(c). Taxon was observed in kick-net samples within the LPRSA at locations that were subsequently removed from the SQT dataset due to the methodological difference. Such taxa are included here for completeness.

(d). Large epibenthic invertebrates were observed during fish and decapod sampling concurrent with infaunal community sampling. An accurate estimate of abundance of these taxa was not determined.

Body size defined as:	**Body length (or width if width is greater [e.g. crabs])**
Small	0-10 mm
Moderate	10-20 mm
Large	20 mm to 100 mm
Very large	>100 mm

Mobility and tolerance are mostly or entirely qualitative categories

Voltinism defined as:	**Reproductive cycles per year**
Semivoltine	<1
Univoltine	1
Bivoltine	2
Multivoltine	>2

		References	Presence/absence[(b)]	
Longevity	Stress Tolerance/ Opportunism	Reference	Lower Passaic River Study Area	Above Dundee Dam
	Tolerant	Simpson and Bode (1980); Boesel (1972); Fagnani and Harman (1987); Roback (1985); Vieira et al. (2006); Thorp and Covich (2010) (based on Chironomidae)	X	X
	Tolerant	Simpson and Bode (1980); Boesel (1972); Fagnani and Harman (1987); Roback (1985); Vieira et al. (2006); Thorp and Covich (2010) (based on Chironomidae)	X	X
1 yr or less	Moderately sensitive	Vieira et al. (2006) (from water mite familes); Thorp and Covich (2010); Pilarczyk et al. (2007) (based on Acari species); Schneider (2005) (based on various oribatids)	X	
Varies		Brusca and Brusca (2003); Kristensen and Kostka (2004)	X	
Typically 1 yr	Tolerant	Vieira et al. (2006) (based on glossophonids); Calow and Riley (1982) (based on glossiphoniids)	X	X
1 yr or more	Sensitive	Pearson and Rosenberg (1978); Llanso (2002); Hines and Comtois (1985); Fauchald and Jumars (1979); SMS (2008d); Kristensen (1984) (based on A. virens and A. diversicolor); ISSG (2014a)	X	
	Sensitive	Collie (1985); Cuomo and Zinn (1997); Levinton (1982)	X	
	Sensitive	Collie (1985); Cuomo and Zinn (1997)	X	
1 yr or less	Moderately sensitive	Thorp and Covich (2010); Pilarczyk et al. (2007); Vieira et al. (2006) (based on Gammaridae)	X	X
		Thorp and Covich (2010); Smock (1988); Vieira et al. (2006); MarineBio (2013a)	X	X
	Moderately tolerant	Murray Darling Freshwater Research Centre (MDFRC) (2014); Thorp and Covich (2010); Fetzner (2007) (based on A. saxicola)	X	
5-6 mo		Holton (1984); Prato and Biandolino (2006) (based on Corophium insidiosum); Hines and Comtois (1985); Levinton (1982) (based on Corophium volutator)	X	
5-6 mo		Holton (1984); Levinton (1982) (based on Corophium volutator); Prato and Biandolino (2006) (based on Corophium insidiosum)	X	
	Tolerant	Soster and McCall (1990); Germano & Associates (2005); Smith et al. (1991); Arslan and Sahin (2003) (based on 9 Naidid species); Vieira et al. (2006)	X	X
	Tolerant	Vieira et al. (2006); Thorp and Covich (2010)	(c)	
	Tolerant	Soster and McCall (1990); Germano & Associates (2005); Smith et al. (1991); Arslan and Sahin (2002); Vieira et al. (2006)	X	X
	Tolerant	Soster and McCall (1990); Germano & Associates (2005); Smith et al. (1991); Arslan and Sahin (2002); Vieira et al. (2006)	X	X
	Tolerant	Soster and McCall (1990); Germano & Associates (2005); Smith et al. (1991); Arslan and Sahin (2002); Vieira et al. (2006)	X	

Assumed ~0.5 yr (days to weeks after emergence with breeding occuring twice per year)	Sensitive	Thorp and Covich (2010); Vieira et al. (2006); Hynes (1970)	(c)	
Assumed ~0.5 yr (days to weeks after emergence with breeding occuring twice per year)	Moderately sensitive	Thorp and Covich (2010); Pilarczyk et al. (2007); Vieira et al. (2006); Hynes (1970)	(c)	
1.26-1.40 yr		Pennak (1978); SMS (2007) (based on B. amphitrite)	X	
	Moderately tolerant	Connelly (2013); Vieira et al (2006); Pilarczyk et al. (2007); Bouchard (2004) (based on Ceratopogonidae)	X	X
	Opportunistic	Simon et al. (2010); Fauchald and Jumars (1979)	X	
Varies		Llanso (2002)	X	
	Tolerant	Soster and McCall (1990); Germano & Associates (2005); Arslan and Sahin (2003) (based on 9 Naidid species)	X	
1 year or less	Moderately tolerant	Wilfrid Laurier University (WLU) (2014); Pilarczyk et al. (2007); Vieira et al. (2006)	X	X
Up to 2-4 yr	Tolerant	Laughlin (1982); Barshaw and Able (1990); Millikin and Williams (1984); SMS (2004)	X	
	Likely tolerant	Oliver and Bode (1985); Cranston (2010)	(c)	
	Moderately tolerant	Vieira et al. (2006); Pilarczyk et al. (2007); Bouchard (2004)	X	X
1-2 years	Moderately tolerant	Vieira et al (2006); Zuellig et al. (2004); WLU (2014); Pilarczyk et al. (2007); Charbonneau and Hare (1998) (based on a trichopteran)	X	X
Likely ~0.5 yr (2 cycles per year with univoltinism)	Sensitive	Britton and Morton (1993); Llanso (2002); Hauck et al. (2008) (based on C. caeca); Griffith and Telford (1985) (based on C. caeca); Naylor (1995) (based on Idotea emarginata); McDermott (2005) (based on *C. caeca*)	X	
Likely ~0.5 yr (2 cycles per year with univoltinism)		Britton and Morton (1993); Llanso (2002); Hauck et al. (2008) (based on *C. caeca*); Griffith and Telford (1985) (based on *C. caeca*); Naylor (1995) (based on *Idotea emarginata*); McDermott (2005)(based on *C. caeca*)	X	
	Likely tolerant	Thorp and Covich (2010); Charbonneau and Hare (1998); Vieira et al. (2006)	(c)	
1-2 yr	Tolerant	Langston University Aquaculture (LUA) (2014); Yan et al. (1999); Llanso (2002); Charbonneau and Hare (1998); Vieira et al. (2006)	X	X
3 yr		Fofonoff et al. (2003); Yan (2002) (thesis)	X	
	Very tolerant	Vieira et al. (2006); Cranston (2010); Pilarczyk et al. (2007)	X	X
Develop in 0.5 yr	Tolerant	Vieira et al. (2006); Cranston (2010); Llanso (2002)	X	
	Tolerant	Vieira et al. (2006); Cranston (2010)	X	X
	Moderately tolerant	Vieira et al. (2006) (size based on multiple species); Pilarczyk et al. (2007)	X	X

1-4 yr	Opportunist/tolerant	Vieira et al. (2006); Llanso (2002); Lauritsen (1986); Sousa et al. (2008); Vohmann (2008) (thesis)	X	X
5-6 mo		Holton (1984); Pearson and Rosenberg (1978); Levinton (1982) (based on Corophium volutator); Prato and Biandolino (2006) (based on Corophium insidiosum)	X	
	Moderately tolerant	Vieira et al. (2006); Cranston (2010); Pilarczyk et al. (2007)	X	
3 yr		Wilcox and Jeffries (1974)	X	
	Sensitive	Pales Espinosa et al. (2007)	X	
Long-lived generally, 2-5 years possible		Thorp and Covich (2010); Vieira et al. (2006) (based on multiple species)	(d)	
	Moderately tolerant	Vieira et al. (2006); Cranston (2010) (based on Crictopus spp.); Pilarczyk et al. (2007) (based on Crictopus spp.)	X	X
	Moderately tolerant	Vieira et al. (2006); Cranston (2010); Pilarczyk et al. (2007)	X	X
	Moderately tolerant	Vieira et al. (2006); Cranston (2010) (based on Crictopus spp.); Pilarczyk et al. (2007)	X	
	Moderately sensitive	Vieira et al. (2006); Curry (1958); Pilarczyk et al. (2007); Cranston (2010)	X	X
	Tolerant	Vieira et al. (2006); Thorp and Covich (2010); MDFRC (2014); Pilarczyk et al. (2007)	X	
0.5 yr	Sensitive	Dean and Haskin (1964); Llanso (2002); Craft and Sacco (2003); EOL (2014a); Hines and Comtois (1985); Olafsson and Persson (1986) (based on C. carinata)	X	
	Tolerant	Soster and McCall (1990); Germano & Associates (2005); Arslan and Sahin (2003) (based on 9 Naidid species)	X	X
	Tolerant	Soster and McCall (1990); Germano & Associates (2005); Arslan and Sahin (2003) (based on 9 Naidid species); Vieira et al. (2006)	X	
Typically 1 yr	Tolerant	Jones and Woo (1990); Vieira et al. (2006) (based on H. stagnalis and other Hirudineans)	X	X
	Moderately tolerant	Vieira et al. (2006); Cranston (2010); Pilarczyk et al. (2007) (based on Dicrotendiptes spp.)	X	X
	Moderately tolerant	Vieira et al. (2006); USEPA (2012); Cranston (2010) (based on Dicrotendiptes spp.); Pilarczyk et al. (2007) (based on Dicrotendiptes spp.)	X	
	Moderately tolerant	Vieira et al. (2006); USEPA (2012); Cranston (2010) (based on Dicrotendiptes spp.); Pilarczyk et al. (2007) (based on Dicrotendiptes spp.)	X	X
	Moderately tolerant	Vieira et al. (2006); USEPA (2012); Cranston (2010) (based on Dicrotendiptes spp.)	X	X
	Moderately tolerant	Vieira et al. (2006); USEPA (2012); Cranston (2010); Pilarczyk et al. (2007)	X	X
Varies	Varies	Vieira et al. (2006); Thorp and Covich (2010)	X	
	Moderately sensitive	Vieira et al. (2006); d'Assis Fonseca (1978); Brooks (2005); Corpus (1986); Pilarczyk et al. (2007); Bouchard (2004); Thorp and Covich (2010)	X	
	Moderately sensitive	Vieira et al. (2006); Thorp and Covich (2010); Smock (1988); Pilarczyk et al. (2007)	X	X
Likely ~0.5 yr (2 cycles per year with univoltinism)		Macdonald et al. (2010) (based on Idoteidae); Hines and Comtois (1985); Griffith and Telford (1985) (based on Chiridotea caeca); Naylor (1995) (based on Idotea emarginata)	X	

Likely ~0.5 yr (2 cycles per year with univoltinism)		Macdonald et al. (2010) (based on Idoteidae); Hines and Comtois (1985); Griffith and Telford (1985) (based on Chiridotea caeca); Naylor (1955) (based on Idotea emarginata)	X	
1/3 to 2/3 yr	Tolerant	Soster and McCall (1990); Rodriguez et al. (2002) (based on Enchytraeus coronatus); Vieira et al. (2006); Glime (2012)	X	X
		Vieira et al. (2006); Thorp and Covich (2010); Steinly (1992); Bouchard (2004)	X	
1-5 yr	Tolerant	ISSG (2014b); Veilleux and de Lafontaine (2007)	(d)	
		Young (2007); Bouchard (2004); Thorp and Covich (2010)	X	
Typically 1 yr	Tolerant	Vieira et al. (2006); WLU (2014); Pilarczyk et al. (2007) (based on Erpobdellidae and other Hirudineans)	X	X
Typically 1 yr	Tolerant	Vieira et al. (2006) (size based on E. punctata and other Hirudineans); WLU (2014); Pilarczyk et al. (2007)	X	
9-15 mo	Moderately tolerant	Vieira et al. (2006) (based on Ancylidae); Soster and McCall (1990) mentions gastropods indicative of more stable areas; WLU (2014); Pilarczyk et al. (2007)	X	X
Up to 2-4 yr		Vieira et al. (2006); Soster and McCall (1990) mentions gastropods indicative of more stable areas	X	
1 yr or less	Moderately sensitive	Pennak (1978), Thorp and Covich (2010); Vieira et al. (2006) (size based on multiple species); Pilarczyk et al. (2007) (based on 2 Gammarus spp.); Macneil et al. (1997)	X	X
1 yr or less	Moderately sensitive	Thorp and Covich (2010); Pilarczyk et al. (2007) (based on other Gammarus spp.); Vieria et al. (2006)	X	
1 yr or less	Moderately sensitive	Thorp and Covich (2010); Pilarczyk et al. (2007) (based on other Gammarus spp.); Vieria et al. (2006) (based on various gammarids)	X	
1 yr or less	Moderately sensitive	Thorp and Covich (2010); Pilarczyk et al. (2007) (based on 2 Gammarus spp.); Vieria et al. (2006) (based on various potential gammarids)	X	X
~1-5 yr		Soster and McCall (1990) mentions gastropods indicative of more stable areas; Vieira et al. (2006) (based on multiple species)	X	
	Sensitive	DFO (2009); Klawe and Dickie (1957)	X	
	Sensitive	Pearson and Rosenberg (1978); Llanso (2002); Levin et al. (2009); Silberstein (1987) (thesis)	X	
	Tolerant	Vieira et al. (2006); Cranston (2010); Llanso (2002); Pilarczyk et al. (2007); Charbonneau and Hare (1998)	X	X
	Tolerant of salinity	Zimmerman et al. (1979) (abstract); Brusca and Brusca (2003); Nayar (1956)	X	
~1.5 yr		Soster and McCall (1990) mentions gastropods indicative of more stable areas; Malaquias et al. (2004) (abstract); Rudman (1971); Malaquias and Sprung (2004) (based on H. orbygniana)	X	
	Intermediate tolerance to enrichment (based on H. curtilamellata)	Vieira et al. (2006), USEPA (2012), Cranston (2010)	X	
Typically 1 yr	Tolerant	Clifford (1991); WLU (2014); Pilarczyk et al. (2007) (based on H. stagnalis); Vieira et al. (2006) (based on H. stagnalis and other Hirudineans)	X	X

Typically 1 yr	Tolerant	Clifford (1991); WLU (2014); Pilarczyk et al. (2007) (based on H. stagnalis); Vieira et al. (2006) (based on H. stagnalis)	X	
Typically 1 yr	Tolerant	Clifford (1991); WLU (2014); Pilarczyk et al. (2007) (based on H. stagnalis); Vieira et al. (2006) (based on H. stagnalis and other Hirudineans)	X	
Typically 1 yr	Tolerant	Clifford (1991); WLU (2014); Pilarczyk et al. (2007) (based on H. stagnalis); Vieira et al. (2006) (based on H. stagnalis and other Hirudineans)	X	X
Typically 1 yr	Tolerant	Clifford (1991); WLU (2014); Pilarczyk et al. (2007); Vieira et al. (2006) (based on multiple Hirudineans)	X	X
	Moderately tolerant	Vieira et al. (2006) (size based on family); Thorp and Covich (2010); Pilarczyk et al. (2007); Bouchard (2004)	X	
	Opportunist/tolerant	Pearson and Rosenberg (1978); Llanso (2002); Fauchald and Jumars (1979); Aller and Yingst (1985); Hines and Comtois (1985)	X	
Typically 1 yr	Tolerant	Vieira et al. (2006) (based on multiple Hirudineans)	X	
Likely short life span (months?)		Fauchald and Jumars (1979); Rudy et al. (1988)	X	
Likely short life span (months?)		Fauchald and Jumars (1979); Rudy et al. (1988) (based on H. florida)	X	
1 yr or less	Sensitive	Vieira et al. (2006); WLU (2014)	X	X
9-15 mo	Tolerant	McCall and Soster (1990) mentions gastropods indicative of more stable areas; Pearson and Rosenberg (1978); Vieira et al. (2006)	X	X
1 yr or less	Moderately sensitive	Vieira et al. (2006); Pilarczyk et al. (2007) (based on Hydropsyche spp.); Charbonneau and Hare (1998) (based on a trichopteran)	X	
1 yr or less	Moderately sensitive	Vieira et al. (2006); Pilarczyk et al. (2007) (based on Hydropsyche spp.); Charbonneau and Hare (1998)	(c)	
1 yr or less	Moderately sensitive	Vieira et al. (2006); Pilarczyk et al. (2007) (based on Hydropsyche spp.); Charbonneau and Hare (1998) (based on a trichopteran)	X	X
1 yr or less	Sensitive	Vieira et al. (2006); Charbonneau and Hare (1998) (based on a trichopteran)	X	
1 yr or less	Moderately sensitive	Vieira et al. (2006); Pilarczyk et al. (2007); Charbonneau and Hare (1998) (based on a trichopteran)	X	X
1 yr or less	Sensitive	Vieira et al. (2006) (based on taxa within family); Charbonneau and Hare (1998) (based on a trichopteran)	X	X
1 yr or less	Moderately sensitive	Vieira et al. (2006) (from water mite familes); Thorp and Covich (2010); Pilarczyk et al. (2007) (based on Acari species)	X	X
	Sensitive	Holton (1984); Hines and Comtois (1985) (from H. heteropoda)	X	
	Opportunist/sensitive	Hines and Comtois (1985); Levin et al. (2009); Zajac and Whitlatch (1982a,b)	X	
1 year or less		Macdonald et al. (2010) (based on Idoteidae); Griffith and Telford (1985) (based on Chiridotea caeca); Tuomi et al. (1988) (based on Idotea balthica)	X	
Up to 5 yr		McCall and Soster (1990) mentions gastropods indicative of more stable areas; Scheltema (1964); Llanso (2002); Levinton (1982); ISSG (2014c) (longevity based on Nassarius obsoletus surrogate)	X	

1-2 yr	Very tolerant	Soster and McCall (1990); Germano & Associates (2005); Gustafson (1996b) (based on I. templetoni); Vieira et al. (2006) (based on multiple Tubificid worms)	X	
1-2 yr	Very tolerant	Soster and McCall (1990); Llanso (2002); Germano & Associates (2005); Gustafson (1996a); Vieira et al. (2006) (based on multiple Tubificid worms)	X	X
1 yr or less	Moderately sensitive	Vieira et al. (2006) (from water mite familes); Thorp and Covich (2010); Pilarczyk et al. (2007) (based on Acari species)	X	X
Likely ~1 yr	Sensitive	Mazurkiewicz (1975); Fauchald and Jumars (1979)	X	
		Soster and McCall (1990) mentions gastropods indicative of more stable areas; Vieira et al. (2006); FWGNA (2014a)	X	X
1 yr or less	Moderately sensitive	Vieira et al. (2006) (from water mite familes); Thorp and Covich (2010); Pilarczyk et al. (2007) (based on Acari species)	X	X
	Opportunist/tolerant	Llanso (2002); Levin et al. (2009); Fauchald and Jumars (1979); Waldbusser et al. (2004); IOPAN and NMFRI (2014) (based on *L. mammosus*)	X	
<1 yr	Sensitive	MDFRC (2014) (based on Crambidae family); Thorp and Covich (2010)	X	
up to 30 mo	Tolerant	Llanso (2002); Block et al. (2003); Hines and Comtois (1985); Thiel (1997) (based on L. pinguis)	X	
	Opportunistic	Kaestner (1980); Watling (1979) (based on order)	X	
	Opportunistic	Brusca and Brusca (2003); Watling (1979) (based on order)	X	
	Sensitive	Vieira et al. (2006); McAuliffe (1982) (abstract); Charbonneau and Hare (1998) (based on a trichopteran); Thorp and Covich (2010)	(c)	
1-2 yr	Very tolerant	Soster and McCall (1990); Thorp and Covich (2010); Llanso (2002); Germano & Associates (2005); EOL (2014b) (based on L. hoffmeisteri); Vieira et al. (2006) (based on multiple Tubificid worms)	X	
1-2 yr	Very tolerant	Soster and McCall (1990); Thorp and Covich (2010); Llanso (2002); Germano & Associates (2005); EOL (2014b) (based on L. hoffmeisteri); Vieira et al. (2006) (based on multiple Tubificid worms)	X	X
1-2 yr	Very tolerant	Soster and McCall (1990); Thorp and Covich (2010); Llanso (2002); Germano & Associates (2005); EOL (2014b) (based on L. hoffmeisteri); Vieira et al. (2006) (based on multiple Tubificid worms)	X	X
1-2 yr	Very tolerant	Soster and McCall (1990); Thorp and Covich (2010); Llanso (2002); Germano & Associates (2005); EOL (2014b) (based on L. hoffmeisteri); Vieira et al. (2006) (based on multiple Tubificid worms)	X	X
	Moderately sensitive	Vieira et al. (2006); USEPA (2012); Cranston (2010)	X	
1 year or less	Moderately sensitive	Vieira et al. (2006); Pilarczyk et al. (2007)	X	
Varries		Thorp and Covich (2010); Vieira et al. (2006) (based on Lumbricidae)	X	
2 yr		Thorp and Covich (2010); Vieira et al. (2006) (based on Lumbriculidae, Lumbriculus variegatus, and Stylodrilus heringianus)	X	X

1 to 4 yr	Moderately tolerant	Soster and McCall (1990) mentions gastropods indicative of more stable areas; Pilarczyk et al. (2007); Vieira et al. (2006)	X	X
	Sensitive	Pearson and Rosenberg (1978); Hines and Comtois (1985) Llanso (2002); MarLIN (2002); Holme (1961); Aller and Yingst (1985); Zwarts and Wanink (1989); Edelaar (2000); Gilbert (1973)	X	
	Tolerant	Pearson and Rosenberg (1978); Holme (1961); Rhoads and Young (1970)	X	
	Moderately sensitive	Thorp and Covich (2010); Smock (1988); Pilarczyk et al. (2007); Vieira et al. (2006)	X	
		Fauchald and Jumars (1979)	X	
	Sensitive	Dauer (1997); Fauchald and Jumars (1979); Llanso (2002); Dale and Miller (2008); Jovanovic et al. (2014); Ysebaert et al. (1997)	X	
	Moderately sensitive	Thorp and Covich (2010); Pilarczyk et al. (2007) (based on Gammaridae); Vieria et al. (2006) (based on various gammarids)	X	
	Opportunist/tolerant	Llanso (2002); Levin et al. (2009); MES et al. (2014); Fauchald and Jumars (1979); Gaston (1987); Warren et al. (1994); Rudy edt al. (1988)	X	
	Tolerant of some stressors	Thorp and Covich (2010); Faasse and van Moorsel (2003)	X	
Up to 2-4 yr	Moderately tolerant	Thorp and Covich (2010) (assumed from other planorbid snails); Vieira et al. (2006) (based on Planorbidae)	X	
Up to 2-4 yr	Moderately tolerant	Thorp and Covich (2010) (assumed from other planorbid snails)	X	X
	Moderately tolerant	Beck (1977); Pilarczyk et al. (2007); Cranston (2010)	X	
18 mo (based on Paranemertes peregrina surrogate)		Thorp and Covich (2010); Brusca and Brusca (2003); Coe (1951); Wright (2014)	X	
1 yr or less	Moderately sensitive	Vieira et al. (2006) (from water mite familes); Thorp and Covich (2010); Pilarczyk et al. (2007) (based on Acari species)	X	
Unclear (taxon unspecified)	Unclear (taxon unspecified)	Thorp and Covich (2010)	(d)	
	Opportunist/tolerant	Lu et al. (1996); Rhoads and Germano (1982); Llanso (2002); Cuomo and Zinn (1997); Levin et al. (2009); SMS (2008c)	X	
	Sensitive	Pearson and Rosenberg (1978); Hines and Comtois (1985) Llanso (2002); Zwarts and Wanink (1989); Global Invasive Species Database (2007)	X	
1/3 to 1/2 yr		Kaestner (1980); Brusca and Brusca (2003); Mees et al. (1994)	X	
	Tolerant	Soster and McCall (1990); Germano & Associates (2005); Arslan and Sahin (2003) (based on 9 Naidid species); Vieira et al. (2006)	X	X
	Moderately tolerant	Soster and McCall (1990); Germano & Associates (2005); Pilarczyk et al. (2007); Arslan and Sahin (2003) (based on several Nais spp.); Vieira et al. (2006)	(c)	

	Tolerant	Soster and McCall (1990); Germano & Associates (2005); Pilarczyk et al. (2007) (based on 8 Nais spp.); Arslan and Sahin (2003) (based on several Nais spp.); Vieira et al. (2006)	X	X
	Moderately sensitive	Beck (1977); Pilarczyk et al. (2007); Cranston (2010)	X	X
Varies	Moderately tolerant	Thorp and Covich (2010); Pilarczyk et al. (2007); Ferris et al (1972); Bongers and Ferris (1999)	X	X
18 mo (based on Paranemertes peregrina surrogate)		Roe (1976); Thorp and Covich (2010); Vieira et al. (2006); Coe (1951); Wright (2014)	X	
1/3 to 1/2 yr		Kaestner (1980); Mees et al. (1994); Brusca and Brusca (2003)	X	
1-3 yr (based on Alitta succinea, A. virens, and A. diversicolor)	Sensitive	Fauchald and Jumars (1979); Kristensen (1984) (based on A. virens and A. diversicolor)	X	
1 yr or less	Moderately sensitive	Vieira et al. (2006) (from water mite familes); Thorp and Covich (2010); Pilarczyk et al. (2007) (based on Acari species)	X	X
	Sensitive	MDFRC (2014); Thorp and Covich (2010)	X	
	Moderately tolerant	Vieira et al. (2006); Pilarczyk et al. (2007); Charbonneau and Hare (1998) (based on a trichopteran)	X	X
	Moderately tolerant	Soster and McCall (1990); Germano & Associates (2005); Pilarczyk et al. (2007); Arslan and Sahin (2003); Vieira et al. (2006)	X	
24 mo	Moderately sensitive	Vieira et al. (2006); Pilarczyk et al. (2007) (based on Orconectes spp.)	(d)	
Develop in 0.5 yr	Likely tolerant	Beck (1977); Vieira et al. (2006); Cranston (2010)	X	X
0.5 to 1.5 yr for most species	Moderately tolerant	Soster and McCall (1990); Germano & Associates (2005); Pilarczyk et al. (2007)	X	X
1 yr or less	Moderately sensitive	Vieira et al. (2006) (from water mite familes); Thorp and Covich (2010); Pilarczyk et al. (2007) (based on Acari species)	X	X
24 mo		Vernberg and Piyatiratitivorakuli (1998); Vieira et al. (2006) (based on Palaemonetes spp.); Anderson and Shanks (1985) (based on P. pugio)	(d)	
	Moderately tolerant	Beck (1977); Pilarczyk et al. (2007); Cranston (2010)	X	X
	Moderately tolerant	Beck (1977); Pilarczyk et al. (2007); Cranston (2010)	X	
	Moderately sensitive	Vieira et al. (2006); Pilarczyk et al. (2007); Cranston (2010)	(c)	
	Moderately sensitive	Beck (1977); Pilarczyk et al. (2007) (based on Paralauterborniella spp.); Cranston (2010)	X	
	Sensitive	Vieira et al. (2006); Pilarczyk et al. (2007)	X	

	Tolerant	Soster and McCall (1990); Germano & Associates (2005); Arslan and Sahin (2003) (based on 9 Naidid species); Vieira et al. (2006)	X	
	Tolerant	Soster and McCall (1990); Germano & Associates (2005); Arslan and Sahin (2003) (based on 9 Naidid species); Vieira et al. (2006)	X	
	Tolerant	Soster and McCall (1990); Germano & Associates (2005); Arslan and Sahin (2003) (based on 9 Naidid species); Vieira et al. (2006)	X	
Develop in 0.5 yr	Moderately tolerant	Johnson and Krieger (2005); Pilarczyk et al. (2007); Cranston (2010); Vieria et al. (2006)	X	
	Tolerant	Beck (1977); Pilarczyk et al. (2007); Cranston (2010); Vieira et al. (2006) (based on P. albimanus)	X	
1 yr	Tolerant of temperature	Llanso (2002); Fauchild and Jumars (1979); Levinton (1982); SMS (2008e)	X	
		Navarro-Barranco et al. (2013)	X	
	Sensitive	Vieira et al. (2006); MDFRC (2014); Dray et al. (1989); Thorp and Covich (2010) (based on Lepidoptera)	(c)	
	Moderately tolerant	Beck (1977); Pilarczyk et al. (2007); Cranston (2010)	X	X
9-15 mo	Tolerant	Soster and McCall (1990) mentions gastropods indicative of more stable areas; Pilarczyk et al. (2007); Vieria et al. (2006)	X	X
1 to 1.5 yr	Opportunistic/ Tolerant of low-to-moderate organic pollution	McCall and Soster (1990); Pennak (1978); Germano & Associates (2005); WLU (2014); Vieira et al. (2006)	X	X
Up to 2-4 yr	Moderately tolerant	Thorp and Covich (2010); Pilarczyk et al. (2007); Vieira et al. (2006) (based on Planorbidae)	X	X
		McCall and Soster (1990) mentions gastropods indicative of more stable areas; Brusca and Brusca (2003)	X	
13-31 mo	Opportunist/tolerant	Llanso (2002); Pearson and Rosenberg (1978); Levin et al. (2009); Fauchald and Jumars (1979); SMS (2008f) (based on P. ligni)	X	
Develop in 60 d	Tolerant	USEPA (2012); Cranston (2010) (based on Polypedelium spp.); Llanso (2002); Boesel (1985); Vieira et al. (2006)	X	
Develop in 60 d	Tolerant	Beck (1977); Llanso (2002); Boesel (1985); Cranston (2010) (based on Polypedelium spp.); Vieira et al. (2006)	X	X
Develop in 60 d	Tolerant	Beck (1977); Llanso (2002); Boesel (1985); Cranston (2010) (based on Polypedelium spp.); Vieira et al. (2006)	X	
Develop in 60 d	Tolerant	Vieira et al. (2006); USEPA (2012); Cranston (2010) (based on Polypedelium spp.); Llanso (2002)	X	X
Develop in 60 d	Tolerant	Beck (1977); Llanso (2002); Cranston (2010); Vieira et al. (2006)	X	X
Varies		Freire and Gonzalez-Gurriaran (1995); Barshaw and Able (1990) (based on Ovalipes ocellatus and Callinectes sapidus)	X	
1-2 yr	Very tolerant	Germano & Associates (2005); Pilarczyk et al. (2007) (based on Tubificidae); Gustafson (1996b); Vieira et al. (2006) (based on multiple Tubificid worms)	X	
	Tolerant	Soster and McCall (1990); Vieira et al. (2006); USEPA (2012); Cranston (2010); Charbonneau and Hare (1998)	X	X
Up to 2-4 yr		FWGNA (2014b); Vieira et al. (2006) (based on Planorbidae)	X	

18 mo (based on Paranemertes peregrina surrogate)	Opportunist/tolerant	Vieira et al. (2006); EOL (2014c) (based on Nemertea); Wright (2014)	X	X
	Moderately tolerant	Vieira et al. (2006); Pilarczyk et al. (2007); Cranston (2010)	X	
	Tolerant	Vieira et al. (2006); Division of Agricultural Sciences and Natural Resources (2009); Bouchard (2004) (based on Psychodidae)	X	
	Tolerant	Vieira et al. (2006); Bouchard (2004)	X	
1-2 yr	Very tolerant	Thorp and Covich (2010); Llanso (2002); Germano & Associates (2005); Pilarczyk et al. (2007) (based on Tubificidae); Gustafson (1996c); Vieira et al. (2006) (based on multiple Tubificid worms)	X	X
Develop in 0.5 yr	Moderately tolerant	Beck (1977); Pilarczyk et al. (2007) (based on Rheotanytarsus spp.); Cranston (2010) (based on Rheotanytarsus spp.); Vieria et al. (2006)	X	X
~1-2 yr	Tolerant	Hegele-Drywa and Normant (2009); Fowler et al. (2013); McDonald (1982); SMS (2008a, b) (based on *Panopeus herbstii, Dyspanopeus sayi,* and *Eurypanopeus depressus* surrogates); Micu et al. (2010) (based on *D. sayi*); Silliman et al. (2004) (based on *P. herbstii*)	X	
		Llanso (2002); MarineBio (2013b)	X	
	Sensitive	Beck (1977); Pilarczyk et al. (2007); Cranston (2010) (based on Saetheria spp.); Vieira et al. (2006)	X	
	Moderately tolerant	Vieira et al. (2006); Thorp and Covich (2010); Blackfly.org.uk (2009); Butler and Hogsette (2013); Pilarczyk et al. (2007); Bouchard (2004)	(c)	
	Moderately tolerant	Soster and McCall (1990); Germano & Associates (2005); Pilarczyk et al. (2007); Arslan and Sahin (2003) (based on 9 Naidid species); Vieira et al. (2006)	X	X
	Likely tolerant	Beck (1977); Cranston (2010); Vieira et al. (2006)	X	
	Tolerant	Soster and McCall (1990); Germano & Associates (2005); Vieira et al. (2006)	X	X
1 to 1.5 yr	Opportunistic	WLU (2014); Vieira et al. (2006)	X	X
Likely short	Opportunistic	Fauchald and Jumars (1979); Liu and Hsieh (2000)	X	
	Moderately sensitive	Beck (1977); Pilarczyk et al. (2007); Cranston (2010); Vieira et al. (2006)	X	
2+ years	Moderately tolerant	Vieira et al. (2006); Pilarczyk et al. (2007) (based on S. interpunctatum)	(c)	X
>1 yr	Moderately sensitive	Stagliano and Whiles (2008); Pilarczyk et al. (2007); Vieira et al. (2006)	X	X
	Moderately sensitive	Beck (1977); Pilarczyk et al. (2007); Cranston (2010); Vieira et al. (2006)	X	X
	Moderately tolerant	Beck (1977); Pilarczyk et al. (2007); Cranston (2010); Vieira et al. (2006)	X	
Likely short	Opportunist/tolerant	Pearson and Rosenberg (1978); Llanso (2002); Levin et al. (2009); Fauchald and Jumars (1979); Levinton (1982); Levin (1984)	X	
2 yr	Sensitive	Vieira et al. (2006); Pilarczyk et al. (2007)	X	

Likely ~0.5 yr (2 cycles per year with univoltinism)		Macdonald et al. (2010) (based on Idoteidiae); Boyd (2008); Griffith and Telford (1985) (based on Chiridotea caeca); Bushek and Boyd (2006) (based on S. laevidorsalis); Naylor (1995) (based on Idotea emarginata)	X	
Likely ~0.5 yr (2 cycles per year with univoltinism)		Macdonald et al. (2010) (based on Idoteidiae); Boyd (2008) (based on S. laticauda); Griffith and Telford (1985) (based on Chiridotea caeca); Bushek and Boyd (2006) (based on S. laevidorsalis); Naylor (1955) (based on Idotea emarginata)	X	
<1 yr	Likely tolerant	Tall et al. (2006); Cranston (2010); Vieira et al. (2006)	X	
<1 yr	Tolerant	Vieira et al. (2006), Cranston (2010); Llanso (2002)	X	X
Develop in 0.5 yr	Tolerant	Johnson and Krieger (2005); Thorp and Covich (2010) (based on Tanytarsus spp.); Cranston (2010); Vieira et al. (2006) (based on Tanytarsus sp. and Cladotanytarsus sp.)	X	X
	Very tolerant	Beck (1977); Pilarczyk et al. (2007); Cranston (2010); Vieira et al. (2006)	X	X
<1 yr	Likely tolerant	Beck (1977); Cranston (2010)	X	
<1 yr	Moderately sensitive	Vieira et al. (2006); Pilarczyk et al. (2007); Cranston (2010)	X	
<1 yr	Moderately tolerant	Vieira et al. (2006); Beck (1977); Pilarczyk et al. (2007); Cranston (2010)	X	X
	Moderately sensitive	Vieira et al. (2006); Pilarczyk et al. (2007); Bouchard (2004)	X	
1-2 yr	Very tolerant	Soster and McCall (1990); Thorp and Covich (2010);Germano & Associates (2005); Pilarczyk et al. (2007); EOL (2014d); Vieira et al. (2006)	X	
Varies	Very tolerant	Soster and McCall (1990); Llanso (2002); Germano & Associates (2005); Pilarczyk et al. (2007)	X	X
Varies	Very tolerant	Soster and McCall (1990); Llanso (2002); Germano & Associates (2005); Pilarczyk et al. (2007)	X	X
1-2 yr	Very tolerant	Soster and McCall (1990); Llanso (2002); Germano & Associates (2005); Pilarczyk et al. (2007) (based on Tubificidae); Giere and Dubilier (1999) (based on T. benedii); Hines and Comtois (1985); Vieira et al. (2006) (based on multiple Tubificid worms)	X	
1-2 yr	Very tolerant	Soster and McCall (1990); Llanso (2002); Germano & Associates (2005); Pilarczyk et al. (2007) (based on Tubificidae); Giere and Dubilier (1999) (based on T. benedii); Hines and Comtois (1985); Vieira et al. (2006) (based on multiple Ttubificid worms)	X	
1-2 yr	Very tolerant	Soster and McCall (1990); Llanso (2002); Hines and Comtois (1985); Germano & Associates (2005); Pilarczyk et al. (2007) (based on Tubificidae); Giere and Dubilier (1999) (based on T. benedii); Vieira et al. (2006) (based on multiple Tubificid worms)	X	
>1 yr	Moderately sensitive	Thorp and Covich (2010); Pilarczyk et al. (2007); Depatra and Levin (1989) (abstract); Martens and Schockaert (1986)	X	X
Develops in 84 d	Intermediate tolerance	Vieira et al. (2006); Pilarczyk et al. (2007) (based on Tvetenia spp.); Cranston (2010) (based on Tvetenia spp.)	(c)	
9-15 mo	Tolerant	Vieira et al. (2006); Pilarczyk et al. (2007)	X	X
	Tolerant, opportunistic	Soster and McCall (1990); Germano & Associates (2005); Arslan and Sahin (2003) (based on 9 Naidid species); Vieira et al. (2006)	X	

APPENDIX N. RISK ASSESSMENT OF AMPHIBIANS/REPTILES

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Acronyms

ACR	acute-to-chronic ratio
AWQC	ambient water quality criteria
BEHP	bis(2-ethylhexyl) phthalate
BERA	baseline ecological risk assessment
BHC	benzene hexachloride
BLM	Biotic Ligand Model
COI	chemical of interest
COPEC	chemical of potential ecological concern
CSM	conceptual site model
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DDT	dichlorodiphenyltrichloroethane
EC10	concentration that causes a non-lethal effect in 10% of an exposed population
EC20	concentration that causes a non-lethal effect in 20% of an exposed population
EC50	concentration that causes a non-lethal effect in 50% of an exposed population
EPC	exposure point concentration
HQ	hazard quotient
LC10	concentration that is lethal to 10% of an exposed population
LC20	concentration that is lethal to 20% of an exposed population
LC50	concentration that is lethal to 50% of an exposed population
LOE	line of evidence
LOEC	lowest-observed-effect concentration
LOEL	lowest-observed-effect level
LPRSA	Lower Passaic River Study Area
NOEC	no-observed-effect concentration
NOEL	no-observed-effect level

PAH	polycyclic aromatic hydrocarbon
PCDD	polychlorinated dibenzodioxins
PCDF	polychlorinated dibenzofurans
RM	river mile
SLERA	screening-level ecological risk assessment
SMAV	species mean acute value
SMV	species mean value
SSD	species sensitivity distribution
SVOC	semivolatile organic compound
TBT	tributyltin
TCDD	tetrachlorodibenzo-*p*-dioxin
total DDx	sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV	toxicity reference value
TSV	toxicity screening value
UCL	upper confidence limit (on the mean)
USEPA	US Environmental Protection Agency
VOC	volatile organic compound

1 Amphibian and Reptile Surface Water Assessment

This appendix presents the baseline risk assessment for amphibians/reptiles. The risk assessment for amphibians/reptiles in the Lower Passaic River Study Area (LPRSA) evaluated the following assessment endpoint:

- **Assessment Endpoint No. 8 –** Protection and maintenance (i.e., survival, growth, and reproduction) of healthy amphibian and reptile populations.

The evaluation of risks to amphibians and reptiles in the LPRSA was based on a comparison of LPRSA surface water concentrations to amphibian-specific toxicity reference values (TRVs). Limited amphibian/reptile- specific water toxicity data are available, and thus, the evaluation of risks to amphibians/reptiles is limited and uncertain. Sediment ingestion is also a likely exposure route for amphibian and reptile populations, but this route was not evaluated because it cannot be quantified reliably.

To evaluate the effect of surface water chemical of potential ecological concern (COPEC) concentrations on amphibians and reptiles, surface water exposure point concentrations (EPCs) were compared with TRVs to derive risk estimates.

1.1 COPECs

COPECs for amphibians/reptiles were identified in the screening-level ecological risk assessment (SLERA) as those chemicals of interest (COIs) with maximum concentrations exceeding toxicity screening values (TSVs) that were protective of amphibian species. The TSVs used to screen in the COPECs are presented in Section 4.6 of the SLERA (Appendix A). The COIs presented in Table 1-1 could not be screened in the SLERA because no amphibian-specific TSVs were available. Table 1-1 also provides a brief discussion of the implications of not being able to evaluate risks to amphibians and reptiles from these COIs.

A total of seven surface water COPECs were identified for amphibians/reptiles: chromium, copper, lead, mercury, nickel, silver, and zinc in the freshwater portion of the LPRSA. For these COPECs, exposure-based concentrations (Section 1.1.2) were compared with TRVs (Section 1.1.3) for the derivation of amphibian/reptile hazard quotients (HQs) in surface water (Section 1.1.4).

Table 1-1. Surface water COIs without amphibian-specific TSVs

COI	Discussion
Metals	
Methylmercury	While no amphibian-specific TSV was available for methylmercury, mercury was evaluated as part of the screen and identified as a COPEC.

Table 1-1. Surface water COIs without amphibian-specific TSVs

COI	Discussion
Butyltins	
Monobutyltin, dibutyltin	TBT is the most toxicologically significant of the butyltins and TBT did not screen in as a COPEC. Given the lack of toxicological data for monobutylin and dibutyltin, the low detection frequency in LPRSA surface water for both COIs (< 3% of samples), and the fact that TBT did not exceed the amphibian- and reptile-specific TSV, monobutyltin and dibutyltin are not expected to pose risks to amphibians and reptiles.
PAHs	
1-methylnaphthalene, 1-methylphenanthrene, 2-methylnaphthalene, 2,3,5-trimethylnaphthalene, 2,6-dimethylnaphthalene, acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(e)pyrene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, dibenzothiophene, fluorene, indeno(1,2,3-cd)pyrene, perylene, phenanthrene, pyrene, total PAHs	Amphibian-specific TSVs were available for 3 PAHs: benzo(a)pyrene, fluoranthene, and naphthalene, which are among the USEPA priority pollutants. COIs without TSVs included total PAHs and 21 individual PAHs. While these COIs were frequently detected (in 65 to 100% of LPRSA samples), they could not be evaluated due to a lack of compound-specific toxicological data. Risks to amphibians and reptiles from these COIs are unknown.
SVOCs	
1,1'-biphenyl, 2,4-dimethylphenol, 2,4-dinitrotoluene, 2,6-dinitrotoluene, 4-bromophenyl-phenylether, 4-methylphenol, acetophenone, benzaldehyde, bis(2-chloroethoxy)methane, bis(2-chloroethyl)ether, bis(2-ethylhexyl) phthalate, butylbenzylphthalate, caprolactam, carbazole, dibenzofuran, diethylphthalate, n-nitroso-di-n-propylamine, n-nitrosodiphenylamine	Of the 18 SVOC COIs without TSVs, 15 were detected in < 10% of LPRSA samples; potential risks from these COIs to amphibians and reptiles are expected to be low because of the low frequency of detection. BEHP, benzaldehyde, diethylphthalate and butylbenzylphthalate were detected in 11, 14, 15, and 29% of LPRSA samples, respectively; risks to amphibians and reptiles from these phthalates are unknown.
PCDDs/PCDFs	
Individual PCDDs/PCDFs	Toxicity data for PCDDs/PCDFs were not available for amphibians or reptiles, so a TSV could not be selected. Individual PCDDs/PCDFs were detected in 1 to 96% of LPRSA samples. Given the toxicological significance of PCDDs/PCDFs, particularly 2,3,7,8-TCDD, and the range of detection frequencies in LPRSA samples, there is uncertainty in the lack of evaluation for this chemical class. Risks to amphibians and reptiles from PCDDs/PCDFs are unknown.

Table 1-1. Surface water COIs without amphibian-specific TSVs

COI	Discussion
Organochlorine Pesticides	
2,4'-DDD, 2,4'-DDE, 2,4'-DDT, 4,4'-DDE, alpha-BHC, beta-BHC, delta-BHC, endosulfan sulfate, endrin aldehyde, endrin ketone, heptachlor epoxide, total chlordane	Amphibian-specific TSVs were available for 4,4'-DDT and 4,4'-DDD, but not for the other four DDT metabolites (i.e., 2,4'-DDD, 2,4'-DDE, 2,4'-DDT, and 4,4'-DDE). Because neither of the DDT metabolites with TSVs were identified as COPECs, risks to amphibians and reptiles from the other DDT metabolites are not expected. TSVs were also not available for eight other pesticide COIs; six of these (alpha-BHC, beta-BHC, endrin ketone, heptachlor epoxide, endosulfan sulfate, and total chlordane) were frequently detected (in 66 to 100% of LPRSA samples), and two of these (endrin aldehyde and delta-BHC) were detected in < 10% of LPRSA samples. Risks to amphibians and reptiles from these COIs are unknown.
VOCs	
1,1,1-trichlorobenzene, 1,1-dichlorethane, 1,2,4-trichlorobenzene, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 1,4-dioxane, bromodichloromethane, chloromethane, cis-1,2-Dichloroethylene, ethylbenzene, isopropylbenzene, vinyl chloride	TSVs were not available for nine VOC COIs; eight these were detected in < 15% of LPRSA samples. Because of the overall low detection frequency of these VOCs, risks to amphibians and reptiles are not expected. The other COI with no TRV (cis-1,2-dichloroethylene) was detected in 98% of samples; risks to amphibians and reptiles from this COI are unknown.
Other	
Cyanide	Cyanide was infrequently detected in the LPRSA (< 6% of samples). Given the low detection frequency and lack of toxicological data for amphibians and reptiles, risks to amphibians and reptiles are not expected.

Note: For total concentrations of chemicals identified as COPECs (e.g., total DDx, total chlordane), individual compounds included in these totals are COIs lacking TRVs and thus are not included.

BEHP – bis(2-ethylhexyl) phthalate
BHC – benzene hexachloride
COI – chemical of interest
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
LPRSA – Lower Passaic River Study Area
PAH – polycyclic aromatic hydrocarbon
PCDD – polychlorinated dibenzo-p-dioxin
PCDF – polychlorinated dibenzofuran
SVOC – semivolatile organic compound
TBT – tributyltin
TCDD – tetrachlorodibenzo-p-dioxin
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TSV – toxicity screening value
USEPA – US Environmental Protection Agency
VOC – volatile organic compound

1.2 EXPOSURE

Because amphibian and reptile exposure areas are primarily limited to shallow freshwater intertidal areas of the LPRSA, the data used in the derivation of amphibian/reptile EPCs were limited to all LPRSA surface water data collected between river mile (RM) 4 and RM 17.4. Surface water samples may not be representative of water chemistry in preferential amphibian/reptile shoreline habitat

because surface water sample locations were targeted at the deepest point, laterally, across the river.

Dissolved and total COPEC concentrations in surface water from above RM 4 are summarized in Table 1-2. COPECs were identified in the SLERA based on the maximum total measured chemical concentrations. EPCs selected for the BERA were based on dissolved metal concentrations, as the freely dissolved fraction of these chemicals is bioavailable to aquatic organisms. EPCs were based on a conservative upper-bound mean estimate (i.e., upper confidence limit [on the mean] [UCL] concentration).

Table 1-2. Summary statistics of COPEC concentrations in LPRSA surface water samples collected above RM 4

COPEC	Fraction	Detection Frequency		Concentration			
		No. of Detects/ No. of Samples	%	Min.	Max.	Mean[b]	UCL
Metals[a]							
Chromium	dissolved	98/98	100	0.18	5.46	1.1	1.2
	total	96/98	98	0.4	27.4	4.2	4.8
Copper	dissolved	154/154	100	1.36	9.26	2.94	3.1
	total	154/154	100	1.68	41.7	8.69	11
Lead	dissolved	154/154	100	0.098	9.97	1.2	1.8
	total	154/154	100	0.104	48.7	9.28	12.2
Nickel	dissolved	98/98	100	0.87	2.6	1.3	1.4
	total	98/98	100	1.01	7.9	2.21	2.39
Mercury (ng/L)	dissolved	154/154	100	0.29	91.5	8.1	13
	total	154/154	100	3.09	407	86	120
Silver	dissolved	48/98	49	0.004	0.119	0.032	0.026
	total	94/98	96	0.022	0.448	0.089	0.1
Zinc	dissolved	98/98	100	2.1	18.5	6.8	8.5
	total	154/154	100	3.03	106	22	29

Note: The UCLs were selected as the EPCs.

[a] Units are in µg/L except where noted otherwise.

[b] The mean was calculated with detected concentrations only.

COPEC – chemical of potential ecological concern
EPC – exposure point concentration
LPRSA – Lower Passaic River Study Area
RM – river mile
UCL – upper confidence limit (on the mean)

1.3 EFFECTS

For the SLERA, the TSVs were based on the lowest-observed-effect concentrations (LOECs) available from the literature (Appendix A). For the baseline ecological risk assessment (BERA), TSVs were re-evaluated to ensure that the effect thresholds used

in the BERA to determine the potential for risk were based on current toxicological data and relevant to the receptors being evaluated.

1.3.1 TRV derivation methods

The TRV derivation method selected for each COPEC was dependent on the availability of sufficient, acceptable toxicological data.

1.3.1.1 Data Selection

Surface water TRVs for amphibians and reptiles were based on LOECs obtained from a review of the primary toxicological data. Primary toxicological studies were identified based on a review of data presented in various databases, including the following:

- Canadian Wildlife Service Reptile and Amphibian Toxicological Literature database (Pauli et al. 2000)
- US Environmental Protection Agency (USEPA) ECOTOX online database (USEPA 2016)

Aquatic toxicity data published since 1978 were exported from the USEPA ECOTOX database and reviewed to identify recent applicable data. The ECOTOX query parameters were limited to:

- Relevant test organisms (i.e., amphibians and reptiles)
- Laboratory tests
- Freshwater media
- Growth, population, mortality, reproduction, and behavior effect measurements

If they met the following requirements, acute toxicity data were selected for further review for potential inclusion in TRV derivation:

- Measured effects were for growth, mortality, reproduction, or behavior.[1]
- Data were from studies that used satisfactory controls.
- Results were reported as 96-hr LC50s (concentrations that are lethal to 50% of an exposed population). If LC50s were limited or not available, 96-hr EC50s (concentrations that cause a non-lethal effect in 50% of an exposed population) were retained for review.
- Results were from 7- to 12-day exposures (sub-chronic exposures) for any receptor.

[1] Behavior effect measurements were not typically considered an acceptable standard endpoint for TRV development, but some toxicity data for behavior effects that result in were considered on a case-by-case basis for inclusion in SSDs.

Chronic toxicity data were reviewed as follows:

- Measured effects were for growth, mortality, reproduction, or behavior.
- Data were from studies that used satisfactory controls.
- Data were from flow-through exposures for all test organisms.
- Data were from studies with reported measured chemical analyses; data from studies for which target concentrations were reported rather than analytically measured were retained for review, if data were limited.
- Results represented no-observed-effect concentration/no-observed-effect level (NOEC/NOEL) and LOEC/lowest-observed-effect level (LOEL) values; if data were limited, other effect levels, such as LC10/EC10 (concentration that is lethal to 10% of an exposed population/concentration that causes a non-lethal effect in 10% of an exposed population) and LC20/EC20 (concentration that is lethal to 20% of an exposed population/concentration that causes a non-lethal effect in 20% of an exposed population), were retained.
- Life cycle, partial life cycle, or early life stage tests were preferred for all test organisms, if test type was reported.

If toxicity data were limited, then the alternative LC50s or EC50s for non-standard endpoints (e.g., behavior), exposure types (e.g., static or renewal), exposure durations (e.g., sub-chronic), and studies with unmeasured chemistry or unsatisfactory controls were considered for inclusion in a species sensitivity distribution (SSD).

1.3.1.2 TRV Derivation

Amphibian/reptile-specific TRVs in surface water were selected based on the following hierarchy for each COPEC:

- An SSD was developed based on chronic toxicity data for a minimum of five species. The BERA TRV was selected as the 5th percentile concentration of the best-fit curve by @Risk.
- If data were insufficient for a chronic SSD, then an SSD was developed based on acute toxicity data for a minimum of five species. The BERA TRV was selected as the 5th percentile concentration of the best-fit curve by @Risk divided by an appropriate acute-to-chronic ratio (ACR). Amphibian- or reptile-specific ACRs were not available for the COPECs evaluated; therefore, ACRs were based on available toxicity data for other aquatic organisms (i.e., fish and invertebrates).
- If data were insufficient for the derivation of an SSD, then the BERA TRV was selected as the lowest chronic toxicity value available.

Table 1-3 presents the selected amphibian/reptile-specific surface water TRVs.

Table 1-3. Amphibian/reptile-specific surface water TRVs

COPEC	TSV (µg/L)	Acute TRV (µg/L)	Chronic TRV (µg/L)	TRV Derivation Method
Metals[a]				
Chromium	3	2,830	1,940	Acute TRV is the 5th percentile of the SSD based on acute toxicity data for 5 amphibian species, divided by 2. Chronic TRV is the 5th percentile divided by an ACR of 2.917 for sensitive freshwater fish and invertebrate species.[b]
Copper	25	12	7.7	Acute TRV is the 5th percentile of the SSD based on acute toxicity data for 21 amphibian species, divided by 2. Chronic TRV is the 5th percentile divided by an ACR of 3.22 for sensitive freshwater fish and invertebrate species.[b, c]
Lead	4	28	2.8	Acute TRV is the lowest toxicity value available, based on 7-day egg survival LC50 for the eastern narrow-mouthed toad, *Gastrophryne carolinensis* (Birge et al. 1978). Chronic TRV is the TSV divided by a factor of 10 (insufficient toxicity data for SSD development and no ACR or chronic toxicity data available).
Mercury	0.016	0.58	0.31	Acute TRV is the 5th percentile of SSD based on acute toxicity data for 12 amphibian species, divided by 2. Chronic TRV is the 5th percentile divided by an ACR of 3.731 for sensitive invertebrate species based on USEPA's AWQC document for mercury (USEPA 1985).[b]
Nickel	5	240	27	Acute TRV is the lowest LC50 for a 10-day subchronic exposure of *Rhinella renarum* embryos (480 µg/L) divided by 2 (Sztrum et al. 2011). The chronic TRV is the LC50 divided by the ACR of 17.99 from USEPA (1996).[b]
Silver	0.41	1.5	0.59	Acute TRV is the 5th percentile of the SSD based on acute toxicity data for 8 amphibian species, divided by 2. Chronic TRV is the 5th percentile divided by an ACR of 5.19 for sensitive freshwater fish and invertebrate species (HydroQual et al. 2007).[b]
Zinc	1	260	50	Acute TRV is the 5th percentile of SSD based on acute toxicity data for 10 amphibian species, divided by 2. Chronic TRV is the 5th percentile divided by an ACR of 10.5 for fish and invertebrate species (DeForest and Van Genderen 2012).[b]

[a] TRVs for all metals were converted to dissolved concentrations using USEPA conversion factors for national AWQC; all TRVs are for freshwater.

[b] An amphibian-specific ACR for was not available; selected ACR is assumed to be conservative but highly uncertain.

[c] The USEPA AWQC ACR for copper is based on three sensitive invertebrate species and two freshwater fish species.

[d] The USEPA AWQC ACR for mercury is based on two sensitive invertebrate species (a cladoceran and a mysid).

ACR – acute-to-chronic ratio
AWQC – ambient water quality criteria
COPEC – chemical of potential ecological concern
LC50 – concentration that is lethal to 50% of an exposed population
SSD – species sensitivity distribution
TRV – toxicity reference value
TSV – toxicity screening value
USEPA – US Environmental Protection Agency

1.3.2 Chromium

For chromium, acute amphibian-specific toxicity data that met the acceptability criteria outlined in Section 1.3.1 were sufficient to develop an SSD (Figure 1-1). The acute SSD was based on data for the minimum of five amphibian species (Table 1-4). The amphibian toxicity data were based on reported exposure to the total form of chromium, but were converted to a dissolved concentration using the USEPA conversion factor (0.962) for chronic chromium(VI) criteria (USEPA 2017). The best-fit curve was a log-logistic distribution (Figure 1-1). The 5th percentile of the acute SSD was 5,664 µg/L. The 5th percentile divided by 2 and rounded provided the acute TRV of 2,830 µg/L.

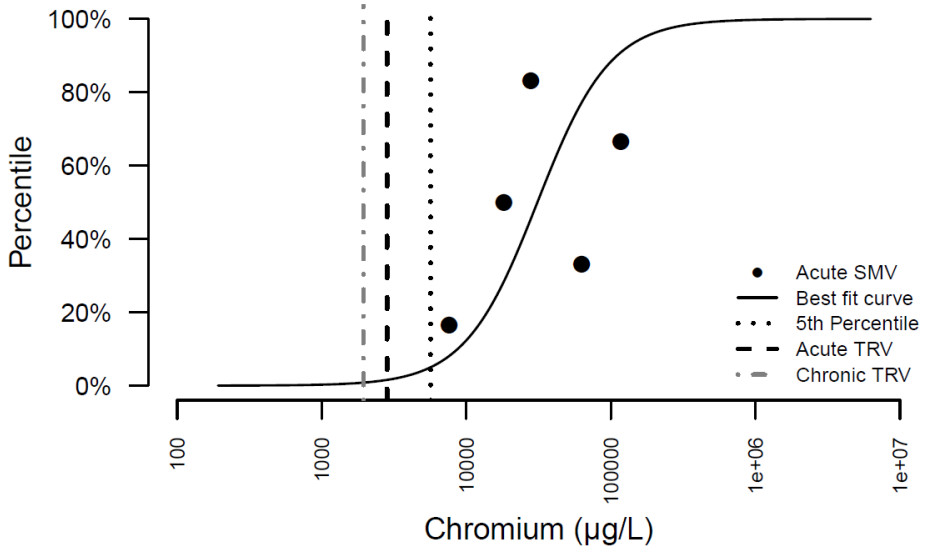

Figure 1-1.Acute amphibian SSD for chromium

Table 1-4. Ranked amphibian acute SMVs for chromium

Species Scientific Name	SMV (µg/L)	Rank	Percentile
Duttaphrynus melanostictus (Asian common toad)	7,611	1	17%
Hypsiboas pulchellus (Montevideo tree frog)	18,192	2	33%
Xenopus laevis (African clawed frog)	27,971	3	50%
Euphlyctis hexadactylus (true frog)	62,781	4	67%
Rana cyanophlyctis (skipping frog)	117,321	5	83%

[a] SMVs are estimated dissolved concentrations.

SMV – species mean value

The 5th percentile divided by an ACR of 2.917 and rounded resulted in a chronic value of 1,940 µg/L, which was selected as the chronic TRV. The selected acute and chronic TRVs were considerably lower than the lowest chronic toxicity value reported by USEPA (2016): a growth LOEC of 6,000 µg/L for an 18-day exposure of embryonic *Hypsiboas pulchellus* (Montevideo tree frog) to chromium(VI). Therefore, the selected BERA TRVs for chromium are expected to provide conservative risk estimates for amphibians.

1.3.3 Copper

For copper, acute amphibian-specific toxicity data that met data acceptability criteria outlined in Section 1.1.3.1 were sufficient to develop an SSD. The acute SSD was based on data for 21 amphibian species (Table 1-5). The amphibian toxicity data were based on reported exposure to the total form of copper, but were converted to a dissolved concentration using the USEPA conversion factor (0.960) for chronic copper criteria (USEPA 2017). The best-fit curve is a Levy distribution (Figure 1-2). The 5th percentile of the acute SSD is 24.7 µg/L. The 5th percentile divided by 2 and rounded provides the acute TRV of 12 µg/L.

Table 1-5. Ranked acute SMVs for dissolved copper

Species (Common Name)	SMV[a] (µg/L)	Percentile
H. chrysoscelis (southern grey tree frog)	23.5	5%
D. melanostictus (Asian common toad)	27.8	9%
E. hexadactylus (true frog)	37.4	14%
R. arenarum (toad)	49.0	18%
A. boreas (western toad)	50.4	23%
L. pipiens (leopard frog)	68.5	27%
B. bufo (common toad)	92.2	32%
L. sphenocephalus ssp. *Sphenocephalus* (Florida leopard frog)	96.6	36%
B. boreas ssp. *Boreas* (boreal toad)	115	41%
E. calamita (natterjack toad)	117	45%
P. ibericus (Iberian parsley frog)	120	50%
X. tropicalis (clawed frog)	280	55%
A. jeffersonianum (Jefferson's salamander)	302	59%
H. tigerinus (Indian bullfrog)	373	64%
B. gargarizans (Asiatic toad)	553	68%
X. laevis (African clawed frog)	689	73%
R. catesbeiana (bullfrog)	2,502	77%
P. perezi (frog)	2,563	82%
A. opacum (marbled salamander)	3,446	86%
L. catesbeiana (bullfrog)	3,802	91%
M. ornata (frog)	4,999	95%

[a] SMVs are estimated dissolved concentrations.

SMV – species mean value

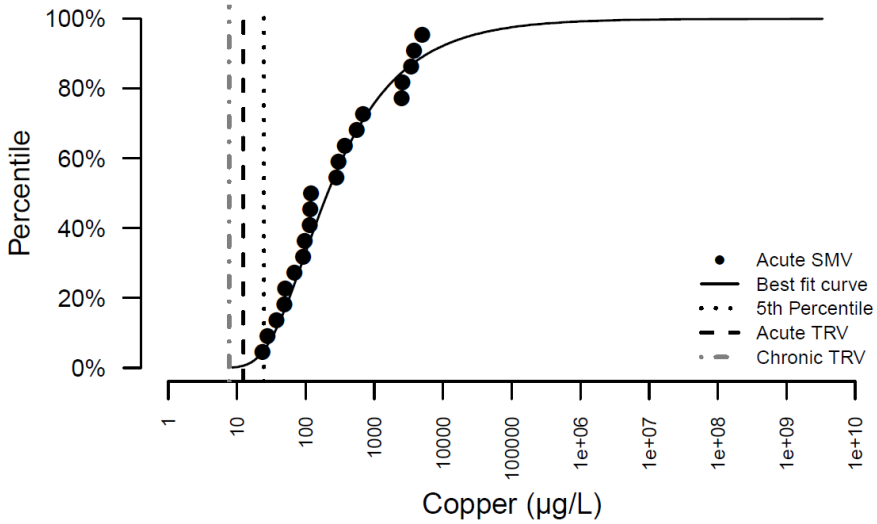

Figure 1-2. Acute amphibian SSD for copper

The lowest chronic toxicity values with measured chemistry in ECOTOX are a 20-day NOEC and LOEC of 4.25 and 34.87 µg/L, respectively, for Arabian toad (*Bufo arabicus*) tadpoles (Table 1-6) (Barry 2011). The 5th percentile divided by an ACR of 3.22 and rounded results in a chronic value of 7.7 µg/L, which was selected as the chronic TRV. The ACR of 3.22 is based on four freshwater invertebrate species and two freshwater fish species (USEPA 2007).

Table 1-6. Chronic toxicity data for copper

Species (Common Name)	Exposure	Endpoint (Effect)	Value (µg/L)[a]	Source
B. arabicus (Arabian toad)	20 days	NOEC (growth)	14.1	Barry (2011)
		LOEC (growth)	34.87	
H. chrysoscelis (southern grey tree frog)	45-50 days	NOEC (growth)	17	Gaietto et al. (2014)

[a] Toxicity values are total copper concentrations.
LOEC – lowest-observed-effect concentration
NOEC – no-observed-effect concentration

1.3.4 Lead

For lead, amphibian-specific toxicity data were very limited and insufficient to develop an SSD. Cumulative percent frequencies of species mean acute values (SMAVs) for the available acute, sub-chronic, and chronic data are presented for seven species (Figure 1-3; Table 1-7). Because data were limited, toxicity data based on

development, behavior, and genetic effects were included in addition to data based on mortality.

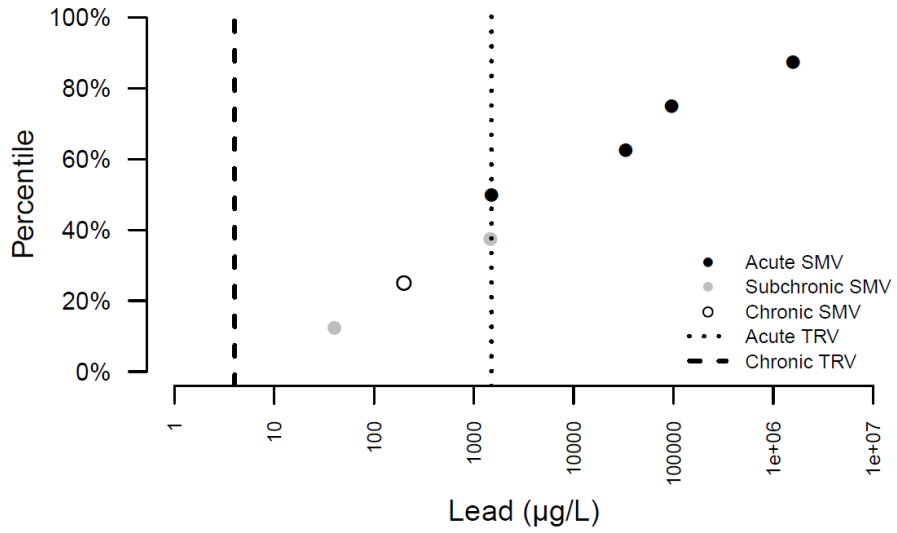

Figure 1-3. Amphibian toxicity data for lead

Table 1-7. Ranked acute, sub-chronic, and chronic SMVs for lead

Species (Common Name)	SMV Type	SMV (µg/L)[a]	Cumulative Percent Frequency
G. carolinensis (eastern narrow-mouthed toad)	sub-chronic	40	13%
P. nigromaculatus (black-spotted frog)	chronic	200	25%
A. opacum (marbled salamander)	sub-chronic	1,460	38%
D. melanostictus (Asian common toad)	acute	1,500	50%
E. hexadactylus (true frog)	acute	33,280	63%
X. laevis (African clawed frog)	acute	96,100	75%
R. cyanophlyctis (skipping frog)	acute	1,585,839	88%

[a] Toxicity values are total lead concentrations.
SMV – species mean value

As shown in Table 1-7, the lowest toxicity value available for a single species was a 7-day egg survival LC50 of 40 µg/L for the eastern narrow-mouthed toad, *Gastrophryne carolinensis* (Birge et al. 1978). This value was the basis of the TSV used in the SLERA. The lowest acute toxicity value was a 96-hr LC50 of 1,500 µg/L for the adult Asian common toad, *Duttaphrynus melanostictus*. The LC50 of 40 µg/L was converted to a dissolved concentration using the USEPA conversion factor (0.960) for

chronic copper criteria (USEPA 2017); the resulting concentation of 28 µg/L was retained as the basis of the conservative acute TRV for the BERA. The chronic TRV (2.8 µg/L) was derived by dividing the TSV by an uncertainty factor of 10. This TRV may result in an overestimation of risk to other amphibian species, as all other available data indicated that other amphibians were not highly sensitive to lead in exposures at concentrations ranging from 140 to over 1,000,000 µg/L of total lead (Figure 1-3).

1.3.5 Mercury

The amphibian-specific freshwater TSV of 0.016 µg/L was based on a 7-day egg survival LC50 for a single frog species (*Xenopus laevis*) (Birge et al. 1979a). There is considerable uncertainty regarding the study that is the basis for this LC50, which does not accurately represent a standard sub-chronic or chronic exposure, as Birge et al. (1979a) exposed adult frogs to 0.2 µg/L of mercury for 11 months prior to spawning, and then exposed embryo-larval stages to mercury concentrations of 0.16 and 0.34 µg/L.

Acceptable sub-chronic data were limited for amphibian species (Table 1-8). Mercury data were, however, sufficient for an acute SSD for 12 amphibian species (Table 1-9). The amphibian toxicity data were based on reported exposure to the total form of mercury, so the data were converted to dissolved concentrations using the USEPA conversion factor (0.850) for chronic mercury criteria (USEPA 2017). The 5th percentile of the Pearson distribution was 1.15 µg/L, equivalent to the acute LC50 for *G. carolinensis* (Figure 1-4; Table 1-9). The acute 5th percentile divided by 2 provided the acute TRV of 0.58 µg/L. The chronic TRV of 0.31 µg/L was derived by dividing the 5th percentile by an ACR of 3.731 from the USEPA ambient water quality criteria (AWQC) document for mercury (USEPA 1985) (Figure 1-4). The mercury ACR was the geometric mean of ACRs for two invertebrates, *D. magna* (a freshwater species) and a mysid (a saltwater species). The mercury ACR was determined to be representative of the most sensitive freshwater and saltwater species presented in the 1984 AWQC document for mercury (USEPA 1985).

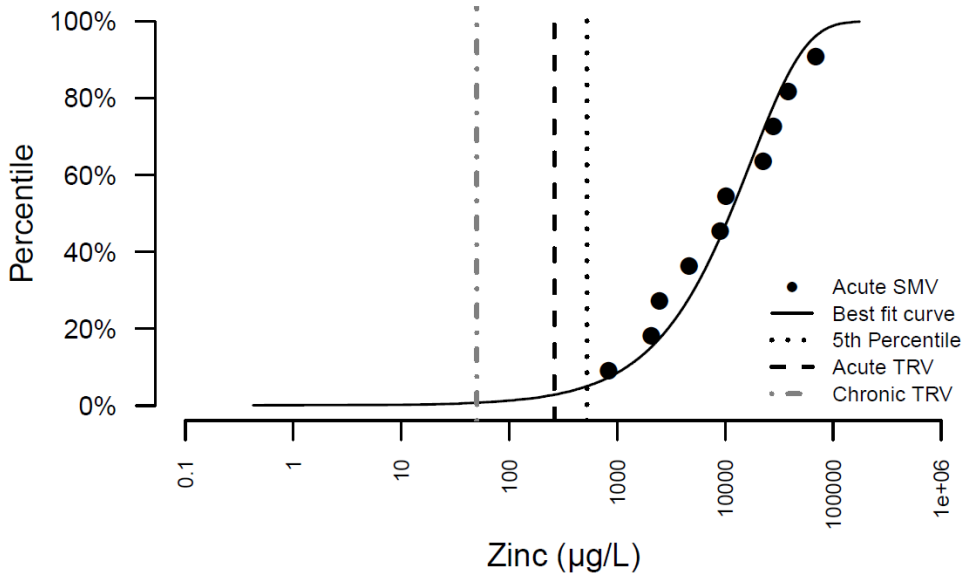

Figure 1-4. Acute amphibian SSD for mercury

Table 1-8. Amphibian sub-chronic toxicity values for mercury

Species (Common Name)	LC50 (µg/L)	Endpoint	Test Duration[a]	Source
X .laevis (African clawed frog)	0.16	survival	7 days[b]	Birge et al. (1979a)
G. carolinensis (eastern narrow-mouthed toad)	1	survival	7 days	Birge et al. (1979b)
	1	survival	7 days	Birge (1978)
A. opacum (marbled salamander)	110	survival	8 days	Paulose (1988)

[a] Toxicity values are total mercury concentrations.

[b] Also reported as an 11-month exposure in Birge et al. (1979a); concluded to be a highly uncertain value for use as a chronic TRV.

LC50 – concentration that is lethal to 50% of an exposed population

TRV – toxicity reference value

Table 1-9. Ranked amphibian acute SMVs for mercury

Species (Common Name)	SMV (µg/L)[a]	Cumulative Percent Frequency
G. carolinensis (eastern narrow-mouthed toad)	1.11	8%
H. chrysoscelis (southern grey tree frog)	2.04	15%
L. pipiens (leopard frog)	6.21	23%
B. punctatus (red-spotted toad)	31.3	31%

Species (Common Name)	SMV (µg/L)[a]	Cumulative Percent Frequency
E. hexadactylus (true frog)	43.4	38%
B. woodhousei ssp. fowleri (Fowler's toad)	56.0	46%
L. grylio (pig frog)	57.1	54%
D. melanostictus (Asian common toad)	76.3	62%
R. breviceps (frog)	170	69%
M. ornata (frog)	310	77%
L. heckscheri (river frog)	578	85%
H. tigerinus (Indian bullfrog)	14,590	92%

[a] SMVs are estimated dissolved concentrations (based on a conversion factor of 0.85) (USEPA 2017).

SMV – species mean value

1.3.6 Nickel

Aquatic toxicity data for nickel and amphibians were limited; no acceptable chronic toxicity data were available. An SSD was developed using acute and sub-chronic data. Table 1-10 summarizes the SMVs based on the acute and sub-chronic toxicity data for nickel.

Table 1-10. Ranked acute and sub-chronic SMVs for nickel

Species Scientific Name (Common Name)	Exposure	SMV (µg/L)	Percentile
G. carolinensis	sub-chronic[a]	49.9	14%
A. opacum (marbled salamander)	sub-chronic	419	29%
R. arenarum (Argentine toad)	sub-chronic	801	43%
R. arenarum (Argentine toad)	acute[b]	1,755	57%
X. laevis (African clawed frog)	acute	2,991	71%
D. melanostictus	acute	8,782	86%

[a] Sub-chronic exposures for amphbians were defined as seven days or more.

[b] Acute exposures for amphibians were defined as four to six days.

SMV – species mean value

The lowest SMV was based on a single sub-chronic (eight-day) LC50 for *A. opacum* embryos (Birge et al. 1978), which was the amphibian-specific TSV used in the SLERA. Birge et al. (1978) studied the effects on early life stage amphibians of exposure to inorganic coal elements and coal waste effluents, which are complex mixtures of chemicals and exposure media that are less relevant to LPRSA exposure conditions for amphibians. The lowest reported sub-chronic value for the longest duration exposure (i.e., 10 days) was an LC50 of 480 µg/L for embryonic *R. arenarum* in developmental stage 25 (S25) embryos (Sztrum et al. 2011); embryos were exposed to nickel solution in AMPHITOX tests. Given that the next lowest sub-chronic value was an 8-day LC50

of 420 µg/L for *A. opacum,* also from Birge et al. (1978), the 10-day LC50 from Sztrum et al. (2011) was selected as the basis of the acute and chronic TRVs selected for the BERA. The acute and chronic TRVs of 240 and 26.7 µg/L were derived using an uncertainty factor of 2 and an ACR of 17.99, respectively, and rounding. The ACR of 17.99 was based on ACRs for 2 freshwater and 1 saltwater species (USEPA 1996).

1.3.7 Silver

For silver, acute amphibian-specific toxicity data that met the acceptability criteria outlined in Section 1.3.1 were sufficient to develop an SSD (Figure 1-5). The acute SSD was based on data for eight amphibian species (Table 1-11). The amphibian toxicity data were based on reported exposure to the total form of silver, but were converted to a dissolved concentration using the USEPA conversion factor (0.85) for chronic silver criteria (USEPA 2017). The best-fit curve was an inverse Gaussian distribution (Figure 1-5). The 5th percentile of the acute SSD was 3.08 µg/L. The 5th percentile divided by 2 and rounded provided the acute TRV of 1.5 µg/L. The 5th percentile divided by an ACR of 5.19 and rounded resulted in a chronic value of 0.59 µg/L, which was selected as the chronic TRV.

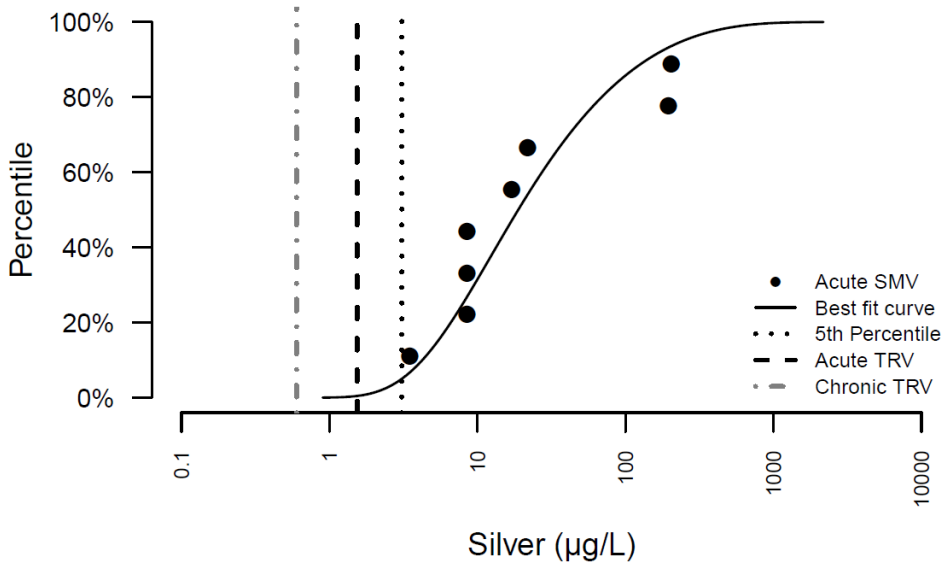

Figure 1-5.Acute amphibian SSD for silver

Table 1-11. Ranked amphibian acute SMVs for silver

Species Scientific Name (Common Name)	SMV (µg/L)	Rank	Percentile
D. melanostictus (Asian Common Toad)	3.5	1	11%
G. carolinensis (Eastern Narrow-Mouthed Toad)	8.5	2	22%
L. pipiens (Leopard Frog)	8.5	3	33%
L. palustris (Pickerel Frog)	8.5	4	44%
R. catesbeiana (Bullfrog)	17.0	5	56%
E. hexadactylus (True Frog)	21.8	6	67%
Bufo woodhousei ssp. *Fowleri* (Fowler's Toad)	196	7	78%
A. opacum (Marbled Salamander)	204	8	89%

SMV – species mean value

1.3.8 Zinc

Aquatic toxicity data were limited for amphibians exposed to zinc; no data were available for reptiles.

Sufficient lead data were available to derive an acute SSD for 10 amphibian species (Table 1-12). The amphibian toxicity data were based on reported exposure to the total form of zinc, but were converted to dissolved concentrations using the USEPA conversion factor (0.986) for chronic zinc criteria (USEPA 2017). The best-fit curve was a Weibull distribution (Figure 1-6). The 5th percentile of the distribution was 524.8 µg/L. The 5th percentile divided by 2 and rounded provided the acute TRV of 260 µg/L. The chronic TRV of 50 µg/L was derived by dividing the 5th percentile by a zinc ACR of 10.5 and rounding up (DeForest and Van Genderen 2012). The zinc ACR was the geometric mean of Biotic Ligand Model (BLM)-based ACRs from an update to the 1995 USEPA AWQC for zinc (DeForest and Van Genderen 2012). These BLM-based ACRs were derived from acute and chronic SSDs for fish and invertebrates.

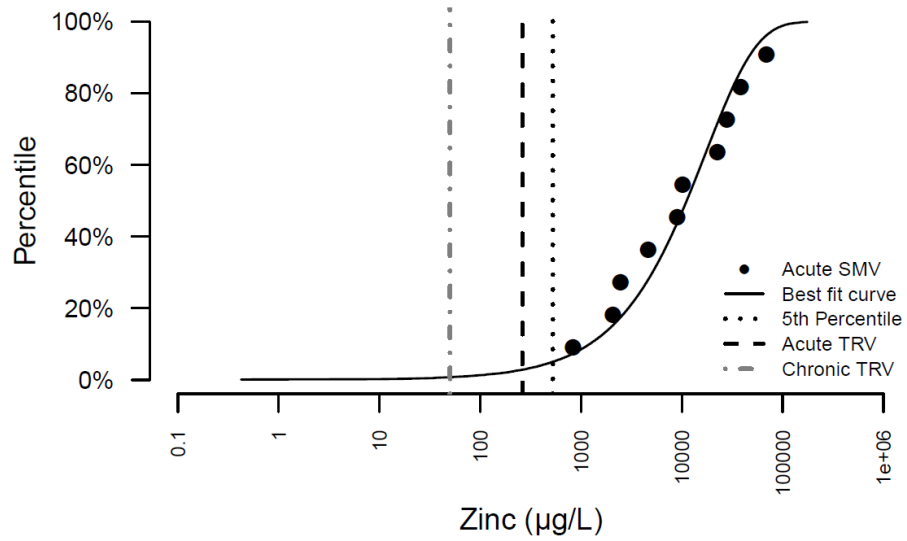

Figure 1-6. Acute amphibian SSD for zinc

Table 1-12. Ranked amphibian acute SMVs for zinc

Species (Common Name)	SMV (µg/L)	Percentile
A. boreas (western toad)	832	9%
E. hexadactylus (true frog)	2,071	18%
R. arenarum (toad)	2,455	27%
H. chrysoscelis (southern grey tree frog)	4,630	36%
D. melanostictus (Asian common toad)	9,005	45%
L. pipiens (leopard frog)	10,194	55%
M. ornata (narrow-mouthed frog)	22,424	64%
R. luteiventris (spotted frog)	27,983	73%
X. laevis (African clawed frog)	38,299	82%
R. catesbeiana (bullfrog)	69,020	91%

SMV – species mean value

1.3.9 TRV Uncertainties

The potential risks to all reptiles in the LPRSA are uncertain due to lack of toxicological reference data. Amphibian-specific toxicity data are also limited, and available data are largely acute. In some instances where acute, amphibian-specific toxicity data were extremely limited (e.g., copper), the acute SSD was developed using LC50s or EC50s for non-standard endpoints (e.g., behavior), exposure types (e.g., static

or renewal), exposure durations (e.g., sub-chronic), and studies with unmeasured chemistry or unsatisfactory controls. This adds an additional level of uncertainty to already limited datasets. Chronic TRVs are derived from SSDs based on acute toxicity data and ACRs, which were based on organisms other than amphibians (e.g., fish and invertebrates). In addition, the amphibian-specific TRVs are based on total metal concentrations and do not account for the influence of site-specific water chemistry (e.g., pH, dissolved organic carbon).

1.4 RISK CHARACTERIZATION

HQs were calculated for the seven surface water COPECs and are presented in Table 1-13. Appendix G (Table G23) also includes EPC, TRVs, and HQs for amphibian/reptile surface water COPECs. The calculated HQs for all amphibians/reptile COPECs were < 1.0.

Table 1-13. Surface water HQs for amphibians/reptiles

COPEC	HQ[a]	
	Acute	Chronic
Metals[b]		
Chromium	0.00042	0.00062
Copper	0.26	0.40
Lead	0.064	0.64
Mercury	0.022	0.042
Nickel	0.0058	0.052
Silver	0.017	0.044
Zinc	0.033	0.17

[a] HQs are based on UCLs presented in Table 1-2 and TRVs presented in Table 1-3.

[b] EPCs for all metals are based on the dissolved chemical form. TRVs are based on the total chemical form.

COPEC – chemical of potential ecological concern
EPC – exposure point concentration
HQ – hazard quotient
TRV – toxicity reference value
UCL – upper confidence limit (on the mean)

1.4.1 Summary of key uncertainties

The primary uncertainty associated with the assessment of amphibians and reptiles is due to the limited toxicity data available. While some amphibian-specific toxicity data are available for a limited number of COIs, including some metals, toxicity data from exposure to metals in water for reptiles are not available.

1.5 SUMMARY AND RISK CONCLUSIONS

The calculated HQs for all seven amphibians/reptile COPECs evaluated (chromium, copper, lead, mercury, nickel, silver, and zinc) were < 1.0. The potential risks to reptiles from all other COPECs in the LPRSA are uncertain due to the general lack of toxicological reference data.

The potential for unacceptable risk from COPECs to amphibians/reptiles in the LPRSA was evaluated based on the conceptual site model (CSM) presented in Section 3 of the BERA main text. Specifically, the risk assessment for amphibians/reptiles evaluated the Assessment Endpoint No. 9:

- Protection and maintenance (i.e., survival, growth, and reproduction) of healthy amphibian and reptile populations.

The potential for risks to amphibians/reptiles was characterized using LPRSA chemistry data in the surface water line of evidence (LOE), wherein COPEC concentrations in surface water were compared to amphibian-specific TRVs. Limited amphibian- and reptile-specific water toxicity data are available, so the evaluation of risks to amphibians/reptiles is limited and uncertain.

The calculated HQs for all seven amphibian and reptile COPECs evaluated (chromium, copper, lead, mercury, nickel, silver, and zinc) were < 1.0. No preliminary COCs were identified for amphibians and reptiles because all COPECs had HQs < 1.0. Unacceptable population-level risks to amphibians and reptiles from exposure to surface water are not expected.

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Appendix O. Risk Assessment of Aquatic Plants

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Acronyms

ACR	acute-to-chronic ratio
AWQC	ambient water quality crieria
BEHP	bis(2-ethylhexyl) phthalate
BERA	baseline ecological risk assessment
CF	conversion factor
COI	chemical of interest
COPEC	chemical of potential ecological concern
CSM	conceptual site model
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DDT	dichlorodiphenyltrichloroethane
EC10	concentration that causes a non-lethal effect in 10% of an exposed population
EC20	concentration that causes a non-lethal effect in 20% of an exposed population
EC50	concentration that causes a non-lethal effect in 50% of an exposed population
Eco-SSL	ecological soil screening level
EPC	exposure point concentration
FAV	final acute value
HQ	hazard quotient
IC50	concentration required for 50% inhibition of an effect
LC10	concentration that is lethal to 10% of an exposed population
LC20	concentration that is lethal to 20% of an exposed population
LC50	concentration that is lethal to 50% of an exposed population
LOAEL	lowest-observed-adverse-effect level
LOEC	lowest-observed-effect concentration
LOEL	lowest-observed-effect level
LPRSA	Lower Passaic River Study Area
MATC	maximum allowable toxicant concentration

NOEC	no-observed-effect concentration
NOEL	no-observed-effect level
ORNL	Oak Ridge National Laboratory
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PCDD	polychlorinated dibenzodioxins
PCDF	polychlorinated dibenzofurans
RM	river mile
SLERA	screening-level ecological risk assessment
SMV	species mean value
SSD	species sensitivity distribution
SVOC	semivolatile organic compound
TBT	tributyltin
TBTC	tributyltin chloride
TBTF	tributyltin fluoride
TBTO	tributyltin oxide
TCDD	tetrachlorodibenzo-*p*-dioxin
total DDx	sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV	toxicity reference value
TSV	toxicity screening value
UCL	upper confidence limit (on the mean)
USEPA	US Environmental Protection Agency

1 Aquatic Plant Assessment

This appendix presents the baseline risk assessment for aquatic plants. The risk assessment for aquatic plants in the Lower Passaic River Study Area (LPRSA) evaluated the following assessment endpoint:

- **Assessment Endpoint No. 9 –** Maintenance of healthy aquatic plant populations as a food resource and habitat for fish and wildlife populations.

The evaluation of risks to aquatic plants in the LPRSA was based on a comparison of LPRSA surface sediment and surface water concentrations to plant-specific toxicity reference values (TRVs). The paucity and questionable applicability of both exposure and effects data, especially for the sediment evaluation, reduce the level of certainty for the quantitative estimates of risk to the aquatic plant community. Furthermore, the presence of aquatic vegetation in the LPRSA is limited by multiple non-chemical stressors, primarily the urbanization of shoreline areas, which reduces habitat quality and availability. Because plants are important components of the ecosystem, this assessment was included to provide a summary of information available to evaluate potential impacts on aquatic plants from surface water- and sediment-associated chemicals. However, risk estimates from this assessment are highly uncertain and should be considered only qualitatively for the purposes of risk management conclusions and decisions.

1.1 SURFACE WATER ASSESSMENT

To evaluate the effect of surface water chemical of potential ecological concern (COPEC) concentrations on aquatic plants, surface water exposure point concentrations (EPCs) were compared with TRVs to derive risk estimates.

1.1.1 COPECs

Aquatic plant COPECs evaluated as part of the baseline ecological risk assessment (BERA) were determined using a two-step screening process. The first step was included in the screening-level ecological risk assessment (SLERA) (Appendix A). Preliminary COPECs for surface water were first identified as those chemicals of interest (COIs) with maximum concentrations exceeding toxicity screening values (TSVs) that were protective of all aquatic life (i.e., benthic invertebrates, fish, and zooplankton). In the second step, the preliminary surface water COPECs were compared to aquatic plant-specific TSVs in an intermediate screening step. This section presents the aquatic plant-specific TSVs selected for the intermediate screening step. Final aquatic plant COPECs were identified when maximum surface water concentrations exceeded aquatic plant-specific TSVs.

After the intermediate screening step, a total of 11 surface water COPECs were identified for aquatic plants: cadmium, chromium, copper, lead, mercury, zinc,

tributyltin (TBT), total polychlorinated biphenyls (PCBs), 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD), 4,4′-dichlorodiphenyldichloroethylene (DDE), and cyanide. For these final COPECs, exposure-based concentrations (Section 1.1.2) were compared with aquatic plant-specific TRVs (Section 1.1.3) to derive aquatic plant hazard quotients (HQs) for the BERA (Section 1.1.4).

1.1.1.1 Intermediate COPEC screen

An intermediate screen of LPRSA surface water data was conducted using plant-specific toxicity data. Plant-specific intermediate TSVs for each of the preliminary COPECs were selected based on the lowest effects levels (e.g., lowest-observed-effect concentration [LOEC], maximum allowable toxicant concentration [MATC], EC50/LC50 [concentration that causes a non-lethal effect in 50% of an exposed population/ concentration that is lethal to 50% of an exposed population], and IC50 [concentration required for 50% inhibition of an effect]) for growth, reproduction, survival, and population (e.g., abundance and growth rates) endpoints available from the US Environmental Protection Agency's (USEPA's) ECOTOX database. Only laboratory exposures 24 hrs and greater for freshwater and saltwater plant species (including algae) were included in the query. Low-effect levels for exposures of 24 hrs were only selected if no other data were available. The selected plant-specific intermediate TSVs are presented in Table 1-1.

Table 1-1. Summary of aquatic plant-specific intermediate TSVs

Preliminary COPEC	Saltwater					Freshwater				
	Intermediate TSV (µg/L)	Endpoint	Exposure Duration	Species Type	Source	Intermediate TSV (µg/L)	Endpoint	Exposure Duration	Species Type	Source
Metals										
Cadmium	7.08E-04[a]	LOEC	96-hr	diatom	Miao et al. (2005)	0.56[b]	EC50	24-hr	algae	Guanzon et al. (1994)
Chromium	12[b]	LOEC	48-hr	dinoflagellate	Wilson and Freeberg (1980)	3[b]	IC10	96-hr	algae	Sofyan (2004)
Copper	5.02E-03[a]	LOEC	96-hr	alga	Miao et al. (2005)	2.7E-04[b]	EC50	24-hr	algae	Guanzon et al. (1994)
Lead	4.4[c]	EC50	11-day	algae	Rivkin (1979)	25[b]	LC50	14-day	algae	Bednarz and Warkowska-Dratnal (1983/1984)
Mercury	6.9E-03[b]	IC50	96-hr	diatom	Horvatic and Persic (2007)	1[b]	EC10	72-hr	algae	van der Heever and Grobbelaar (1996)
Selenium	33[b]	EC50	14-day	algae	Vocke et al. (1980)	33[g]	EC50	14-day	algae	Vocke et al. (1980)
Silver	1.3 [b]	LOEC	48-hr	dinoflagellate	Wilson and Freeberg (1980)	0.66[b]	LOEC	96-hr	algae	Hiriart-Baer et al. (2006)
Zinc	2.6E-05[a]	LOEC	96-hr	diatom	Miao et al. (2005)	6.5E-04[c]	LOEL	7-day	algae	Gouvêa et al. (2008)
Butyltins										
TBT	2.8E-04[d]	EC50	96-hr	algae	Huang et al. (1996)	5.2E-05[d]	EC50	96-hr	algae	Huang et al. (1996)
PCBs										
Total PCBs	0.1[e]	LOEC	5-day	algae	Fisher (1974)	4.57[f]	LOEC	48-hr	algae	Mayer et al. (1998)

Preliminary COPEC	Saltwater					Freshwater				
	Intermediate TSV (µg/L)	Endpoint	Exposure Duration	Species Type	Source	Intermediate TSV (µg/L)	Endpoint	Exposure Duration	Species Type	Source
PCDDs/PCDFs										
2,3,7,8-TCDD	no data	na	–	–	–	no data	na	–	–	–
Pesticides										
4,4′-DDE	no data	na	–	–	–	no data	na	–	–	–
4,4′-DDT	10	LOEC	72-hr	misc. species	Mosser et al. (1972)	900	LC50	14-day	algae	Bednarz (1981)
Dieldrin	100	EC50	96-hr	algae	(1981)	100	EC50	96-hr	algae	Adema and Vink (1981)
Total Chlordane	338[g]	EC50	5-day	algae	Richter et al. (1983)	338	EC50	5-day	algae	Richter et al. (1983)
Total DDx	10[h]	LOEC	72-hr	misc. species	Mosser et al. (1972)	900[h]	LC50	14-day	algae	Bednarz (1981)
PAHs										
Anthracene	10[g]	LOEC	7-day	duckweed	Mallakin et al. (1999)	10	LOEC	7-day	duckweed	Mallakin et al. (1999)
Benzo(a)anthracene	13.7[g]	EC50	24-hr [h]	algae	Altenburger et al. (2004)	13.7	EC50	24-hr[i]	algae	Altenburger et al. (2004)
Benzo(a)pyrene	5[g]	EC50	72-hr	algae	Schoeny et al. (1988)	5	EC50	72-hr	algae	Schoeny et al. (1988)
Fluoranthene	80	LOEC	72-hr	diatom	Wang and Zheng (2008)	41.7	IC50	96-hr	algae	University of Wisconsin and Brooke (1993)
Pyrene	1,000[g]	IC50 (8-day)	8-day	algae	Huang et al. (1995)	1,000	IC50 (8-day)	8-day	algae	Huang et al. (1995)
SVOCs										
BEHP	3.1 x 10^7	EC50	96-hr	dinoflagellate	Wilson et al. (1978)	320	EC50	96-hr	algae	Adema and Vink (1981)

Preliminary COPEC	Saltwater					Freshwater				
	Intermediate TSV (µg/L)	Endpoint	Exposure Duration	Species Type	Source	Intermediate TSV (µg/L)	Endpoint	Exposure Duration	Species Type	Source
Butylbenzyl phthalate	190	EC50	96-hr	algae	Syracuse Research (2000)	120	EC50	96-hr	algae	USEPA (1978)
Hexachlorobenzene	10[g]	EC50	96-hr	algae	Geyer et al. (1985)	10	EC50	96-hr	algae	Geyer et al. (1985)
Other										
Cyanide	10	EC50	96-hr	algae	Geyer et al. (1985)	158	EC10	72-hr	algae	Brack and Rottler (1994)

[a] Based on the labile chemical form (i.e., free ion).

[b] Based on the total chemical form.

[c] Based on the dissolved chemical form.

[d] TBT chloride-based TSV converted to TBT cation-based TSV using a CF of 0.8911 for TBTC (USEPA 2003). Original saltwater and freshwater toxicity values were 0.00031 and 0.00058 µg TBTC/L, respectively.

[e] Based on PCB Aroclor 1254.

[f] Based on PCB 105.

[g] No saltwater TSV was available, so the freshwater value is used as a surrogate TSV.

[h] Total DDx TSV based on 4,4′-DDT TSV.

[i] Based on a 24-hr exposure (only data available).

j Based on potassium cyanide, not free cyanide ion.

BEHP – bis(2-ethylhexyl)phthalate

CF – conversion factor

COPEC – chemical of potential ecological concern

DDD – dichlorodiphenyldichloroethane

DDE – dichlorodiphenyldichloroethylene

DDT – dichlorodiphenyltrichloroethane

EC50 – concentration that causes a non-lethal effect in 50% of an exposed population

IC50 – concentration required for 50% inhibition of an effect

LC50 – concentration that is lethal to 50% of an exposed population

LOEC – lowest-observed-effect concentration

na – not applicable (no toxicity data)

PAH – polycyclic aromatic hydrocarbon

PCB – polychlorinated biphenyl

PCDD – polychlorinated dibenzodioxins

PCDF – polychlorinated dibenzofurans

SVOC – semi-volatile organic compound

TBT – tributyltin

TBTC – tributyltin chloride

TCDD – tetrachlorodibenzo-*p*-dioxin

total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

TSV – toxicity screening value

USEPA – US Environmental Protection Agency

Table 1-2 presents the final 11 COPECs identified for aquatic plants; these were the preliminary COPECs identified in the SLERA with maximum concentrations exceeding the aquatic plant-specific intermediate TSVs. Data were not available to select aquatic plant-specific TSVs for two of the preliminary COPECs (2,3,7,8-TCDD and 4,4′-DDE), so they were retained as final COPECs for aquatic plants.

Table 1-2. Final surface water COPECs for aquatic plants

Final COPEC	
Metals[a]	
Cadmium	Lead
Chromium	Mercury[b]
Copper	Zinc
Butyltins	
TBT	
PCBs	
Total PCBs[b]	
PCDDs/PCDFs	
2,3,7,8-TCDD[c]	
Pesticides	
4,4′-DDE[c]	
Other	
Cyanide[b]	

Note: Final COPECs are those preliminary COPECs for which the maximum surface water concentration exceeded its intermediate TSV.

[a] Metals were evaluated based on total metal concentrations in LPRSA surface water.

[b] COPEC for estuarine area only.

[c] No aquatic plant-specific TSV could be developed, so included as a final COPEC for further evaluation.

COPEC – chemical of potential ecological concern
DDE – dichlorodiphenyldichloroethylene
LPRSA – Lower Passaic River Study Area
na – not applicable
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzodioxins
PCDF – polychlorinated dibenzofurans
TBT - tributyltin
TCDD – tetrachlorodibenzo-*p*-dioxin
TSV – toxicity screening value

1.1.2 Exposure

For the final 11 aquatic plant COPECs, all LPRSA surface water data (including both near-bottom and near-surface samples) were evaluated to estimate exposure of aquatic plants. Surface water EPCs were based on a conservative upper-bound mean estimate (i.e., upper confidence limit [on the mean] [UCL] concentration). Surface water EPCs for aquatic plants are presented in Table 1-3. Concentrations in surface water collected between river mile (RM) 0 and RM 13 were compared to estuarine TRVs, and concentrations in surface water collected between RM 4 and RM 17.4 were compared to freshwater TRVs.

Table 1-3. Summary statistics of final COPEC concentrations in LPRSA site-wide surface water

Final Aquatic Plant COPEC	Estuarine (RM 0–RM 13)						Freshwater (RM 4–RM 17.4)					
	Detection Frequency		Concentration				Detection Frequency		Concentration			
	No. of Detects/ No. of Samples	%	Min.	Max.	Mean[a]	UCL	No. of Detects/ No. of Samples	%	Min.	Max.	Mean[a]	UCL
Metals[b] (µg/L)												
Cadmium	272/320	85	0.004	0.149	0.046	0.043	113/154	73.4	0.004	0.149	0.038	0.035
Chromium	194/200	97	0.18	5.46	0.83	0.89	98/98	100	0.18	5.46	1.1	1.2
Copper	320/320	100	1.11	9.26	2.51	2.61	154/154	100	1.36	9.26	2.94	3.1
Lead	320/320	100	0.07	9.97	0.85	1.2	154/154	100	0.098	9.97	1.2	1.8
Mercury (ng/L)	319/320	99.7	0.26	91.5	6.4	9.0	154/154	100	0.29	91.5	8.1	13
Zinc	200/200	100	1.54	18.5	7.1	7.5	98/98	100	2.1	18.5	6.8	8.5
Butyltin (µg/L)												
TBT	2/200	1	0.013	0.026	0.020	nc	1/98	1	0.026	0.026	na	nc
PCBs (ng/L)												
Total PCBs	320/320	100	0.0485	183	20.8	25.5	154/154	100	1.96	183	25.8	34
PCDD/PCDFs (ng/L)												
2,3,7,8-TCDD	273/320	85	0.000617	1.87	0.0215	0.0541	139/154	90	0.000996	1.87	0.0375	0.108
Pesticides (ng/L)												
4,4'-DDE	184/200	92	0.22	8.26	1.1	1.2	93/98	95	0.29	8.26	1.5	1.7
Other (mg/L)												
Cyanide	11/200	6	0.003	0.031	0.009	0.01	10/98	10	0.003	0.014	0.0068	0.0068

Note: The UCL was selected as the EPC, except where noted.

[a] The mean was calculated with detected concentrations only.

[b] EPCs for metals were based on the dissolved chemical form, except where noted.

COPEC – chemical of potential ecological concern
DDE – dichlorodiphenyldichloroethylene
EPC – exposure point concentration
LPRSA – Lower Passaic River Study Area
na – not applicable
nc – not calculated
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzodioxins
PCDF – polychlorinated dibenzofurans
RM – river mile
TBT – tributyltin
TCDD – tetrachlorodibenzo-*p*-dioxin
UCL – upper confidence limit on the mean

1.1.3 Effects

USEPA guidance regarding the interpretation of toxicity tests with plants is not well developed. For the BERA, aquatic plant-specific effects thresholds were developed based on the toxicity data available from the USEPA ECOTOX (USEPA 2016) database using an approach that was generally consistent with the ambient water quality criteria (AWQC) methodology (Stephan et al. 1985).

1.1.3.1 Data selection

The ECOTOX query parameters were limited to:

- Relevant test organisms
- Laboratory tests
- Saltwater and freshwater media
- Growth, population, mortality, and reproduction effect measurements

Stephan et al. (1985) defines an plant toxicity value acceptable for consideration in the development of water quality critiera as "the result of a 96-hour test conducted with an alga or a chronic test conducted with an aquatic vascular plant." Chronic exposures are not well defined for vascular plants; for this assessment, they were defined as exposures greater than 96 hours. Using this definition, most of the available toxicity data for algal and aquatic vascular plant species were considered chronic exposures. Chronic toxicity data were selected for further review for potential inclusion in TRV derivation if they met the following requirements:

- Measured effects were for growth, mortality, reproduction, and population.
- Data were from studies that used satisfactory controls.
- Data were from studies with reported measured chemical analyses; data from studies for which target concentrations were reported rather than analytically measured were retained for review, if data were limited.
- Results were reported as 96-hr LC50s for algae. If LC50s were limited or not available, 72-hr LC50s, 72-hr EC50s, and 96-hr EC50s were retained for review.
- Results were reported for greater than 96-hr LC50s or EC50s for vascular plants.
- Results represented no-observed-effect concentration/no-observed-effect level (NOEC/NOEL) and LOEC/lowest-observed-effect level (LOEL) values; if data were limited, other effect levels, such as LC10/EC10 (concentration that is lethal to 10% of an exposed population/concentration that causes a non-lethal effect in 10% of an exposed population) and LC20/EC20 (concentration that is lethal to 20% of an exposed population/concentration that causes a non-lethal effect in 20% of an exposed population), were retained.

If data were extremely limited, then the alternative LC50s or EC50s for studies with unmeasured chemistry or unsatisfactory controls were considered for inclusion in SSDs.

1.1.3.2 TRV selection

For the final aquatic plant COPECs identified based on the intermediate TSVs (Section 1.1.1.1), TRVs were derived for aquatic plants using the following process:

1. If chronic data were sufficient, then a species sensitivity distribution (SSD) was developed based on chronic toxicity data for a minimum of five species. An SSD is a statistical model that can be used to calculate a chemical concentration protective of a predetermined percentage of a group of species. SSDs are intended to provide an indication of both the total range and distribution of species sensitivities in natural communities, even when the actual range of sensitivities is unknown (Stephan 2002). The TRV was selected as the 5th percentile concentration of the best-fit curve identified using @RISK.
2. If data were insufficient to derive a chronic or acute SSD, then the acute and chronic TRVs were selected as the lowest toxicity values available from the literature.

Table 1-4 presents the selected chronic aquatic plant-specific surface water TRVs. Acute TRVs were not selected for plants.

Table 1-4. Aquatic plant-specific surface water TRVs

Final COPEC	Media	Chronic TRV (µg/L)[a]	TRV derivation method
Metals[b]			
Cadmium	saltwater	1.7	5th percentile of SSD based on chronic toxicity data for 23 species
	freshwater	5.2	5th percentile of SSD based on chronic toxicity data for 22 species
Chromium	saltwater	103	lowest SMV based on a 72-hr EC50 for an algae species (*Chlorella protothecoides*)
	freshwater	3.5	5th percentile of SSD based on toxicity data for 5 species
Copper	saltwater	4.1	5th percentile of SSD based on toxicity data for 40 species
	freshwater	1.7	5th percentile of SSD based on toxicity data for 44 species
Lead	saltwater	83	5th percentile of SSD based on toxicity data for 13 species
	freshwater	251	5th percentile of SSD based on toxicity data for 13 species
Mercury	saltwater	10.7	5th percentile of SSD based on toxicity data for 13 species
Zinc	saltwater	0.35	5th percentile of SSD based on toxicity data for 19 species
	freshwater	25	5th percentile of SSD based on toxicity data for 39 species

Table 1-4. Aquatic plant-specific surface water TRVs

Final COPEC	Media	Chronic TRV (µg/L)[a]	TRV derivation method
Butyltins			
TBT	saltwater	0.023	5th percentile of SSD based on toxicity data for 9 species
	freshwater	0.00052	lowest toxicity value based on a 96-hr EC50 for reduced population abundance of an algae species
PCBs			
Total PCBs	saltwater	0.10	lowest chronic LOEC based on a 5-day LOEL for reduced population abundance of marine phytoplankton; same value as intermediate screening TRV
Other			
Cyanide	saltwater	4.9	lowest chronic value based on a 20-day LOEL for reduced population abundance of an algal species; same value as intermediate TSV

[a] NOAEL TRVs were not developed for surface water; surface water TRVs were based on effects levels from the literature.

[b] TRVs for metals were based on the dissolved chemical form.

COPEC – chemical of potential ecological concern
EC50 – concentration that causes a non-lethal effect in 50% of an exposed population
LOEC – lowest-observed-effect concentration
LOEL – lowest-observed-effect level
LPRSA – Lower Passaic River Study Area
NOAEL – no observed adverse effect level
PCB – polychlorinated biphenyl
SMV – species mean value
SSD – species sensitivity distribution
TBT – tributyltin
TRV – toxicity reference value
TSV – toxicity screening value
USEPA – US Environmental Protection Agency

Cadmium

Cadmium toxicity data were available for 22 freshwater aquatic plant species, 11 of which were single-celled aquatic plant organisms (e.g., algae, microalgae, diatom, dinoflagellate, and euglenoid) (Figure, 1-1, Table 1-5). Saltwater toxicity data were available for 23 species, 21 of which were single-celled organisms (Figure 1-2, Table 1-6). Toxicity data were primarily for total metal concentrations, so USEPA's conversion factors (CFs) for cadmium were applied to the data prior to calculation of species mean values (SMVs) for the SSDs (USEPA 2015). The freshwater CF of 0.8425 for cadmium is based on an average site-specific hardness value of 490 µg/L calcium carbonate.[1] The saltwater CF of 0.994 is not a hardness-based value.

[1] The equation for converting total cadium concentrations to dissolved cocnetrations for developing a chronic criterion is: 1.101672 - (*ln*[hardness] × 0.041838).

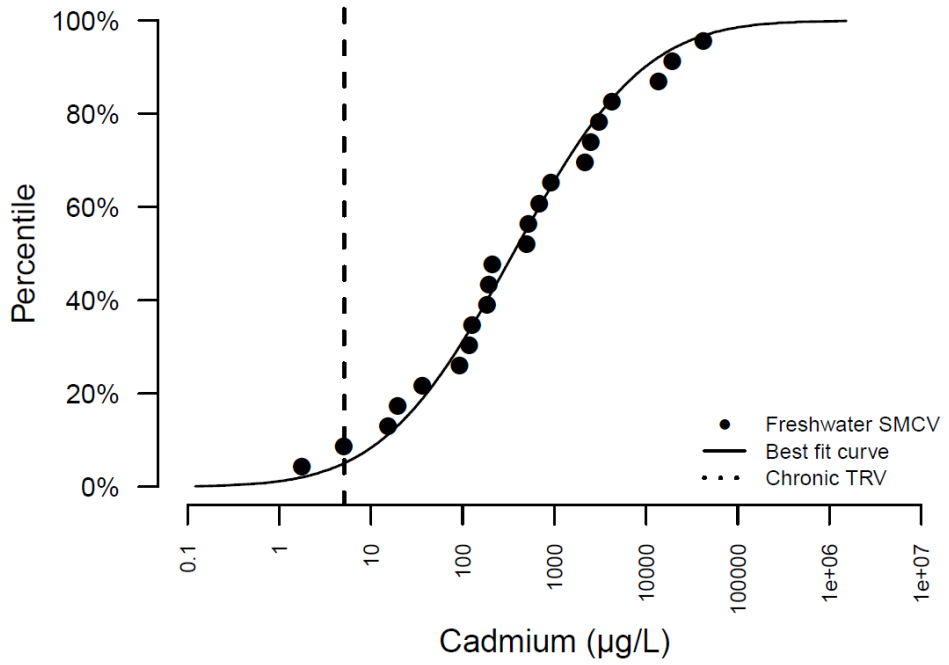

Figure 1-1. Aquatic plant freshwater SSD for cadmium

Table 1-5. Ranked aquatic plant freshwater SMVs for cadmium

Species Scientific Name	Species Common Name	SMV	Rank	Percentile Rank
Staurastrum cristatum	green algae	1.8	1	4%
Chlorella pyrenoidosa	green algae	5.1	2	9%
Vallisneria americana	water-celery, tapegrass	15.4	3	13%
Lemna gibba	inflated duckweed	19.6	4	17%
Parachlorella kessleri	green algae	36.3	5	22%
Chlorella saccharophila	green algae	92.7	6	26%
Lemna minor	duckweed	118	7	30%
Spirodela polyrhiza	large duckweed	127	8	35%
Chlorella sp.	green algae	184	9	39%
Elodea canadensis	waterweed	192	10	43%
Microcystis aeruginosa	blue-green algae	211	11	48%
Cyclotella meneghiniana	diatom	497	12	52%
Chlamydomonas acidophila	green algae	521	13	57%
Navicula confervacea	diatom	685	14	61%
Typha latifolia	cattail	918	15	65%

Table 1-5. Ranked aquatic plant freshwater SMVs for cadmium

Species Scientific Name	Species Common Name	SMV	Rank	Percentile Rank
Euglena mutabilis	flagellate euglenoid	2,162	16	70%
Chlorella vulgaris	green algae	2,495	17	74%
Marsilea minuta	aquatic fern	3,067	18	78%
Echinochloa frumentacea	billion dollar grass	4,233	19	83%
Lemna aequinoctialis	lesser duckweed	13,674	20	87%
Eichhornia crassipes	water hyacinth	19,240	21	91%
Myriophyllum spicatum	Eurasian watermilfoil	42,072	22	96%

SMV – species mean value

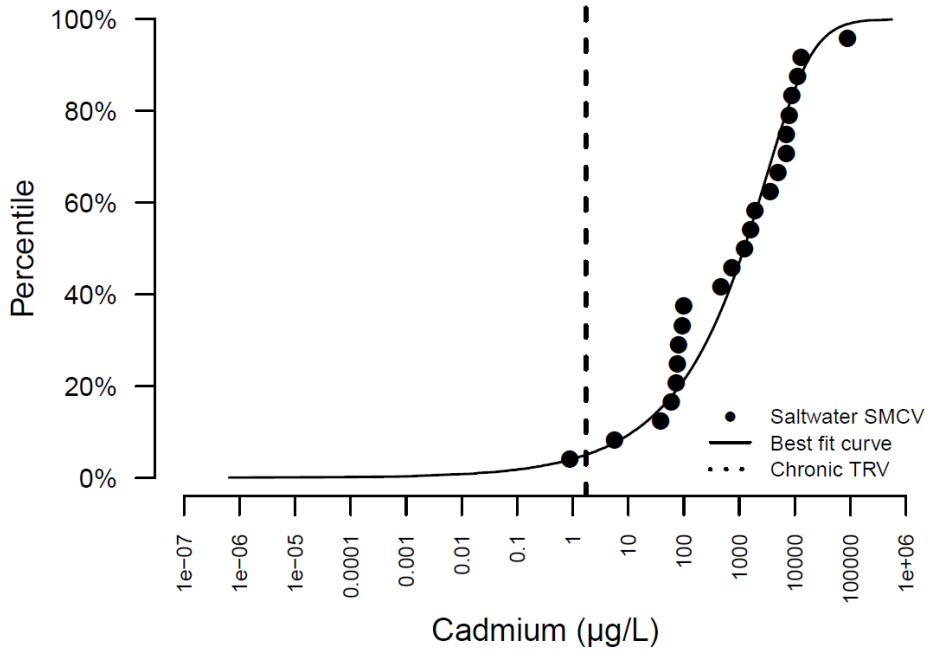

Figure 1-2.Aquatic plant saltwater SSD for cadmium

Table 1-6. Ranked aquatic plant saltwater SMVs for cadmium

Species Scientific Name	Species Common Name	SMV	Rank	Percentile Rank
Synechococcus sp.	blue-green algae	0.89	1	4%
Chlamydomonas bullosa	green algae	5.7	2	8%
Cyclotella meneghiniana	diatom	38.5	3	13%
Ditylum brightwellii	diatom	59.6	4	17%

Table 1-6. Ranked aquatic plant saltwater SMVs for cadmium

Species Scientific Name	Species Common Name	SMV	Rank	Percentile Rank
Dunaliella tertiolecta	green algae	72.8	5	21%
Dunaliella minuta	green algae	77.2	6	25%
Stichococcus bacillaris	green algae	80.5	7	29%
Ulva pertusa	green algae	94.4	8	33%
Gonyaulax polyedra	dinoflagellate	99.4	9	38%
Gracilaria tenuistipitata	red algae	467	10	42%
Skeletonema costatum	diatom	737	11	46%
Chlorella autotrophica	green algae	1,240	12	50%
Ulva fasciata	sea lettuce	1,590	13	54%
Chaetoceros sp.	diatom	1,908	14	58%
Zostera marina	eelgrass	3,589	15	63%
Amphora coffeaeformis	diatom	4,980	16	67%
Thalassiosira weissflogii	diatom	7,028	17	71%
Dunaliella salina	green algae	7,085	18	75%
Planothidium hauckianum	diatom	7,892	19	79%
Triceratium sp.	diatom	8,857	20	83%
Gracilaria lemaneiformis	red algae	11,174	21	88%
Fragilaria pinnata	diatom	12,952	22	92%
Phaeodactylum tricornutum	diatom	88,812	23	96%

SMV – species mean value

The log-normal distribution provided the best-fit curve for the freshwater SMVs (Figure 1-1). The 5th percentile of 5.2 µg/L was selected as the chronic freshwater TRV. The Pearson 6 distribution provided the best-fit curve for the saltwater SMVs (Figure 1-2). The 5th percentile of the saltwater SSD (1.7 µg/L) was selected as the chronic saltwater TRV.

Chromium

Chromium toxicity data were limited for freshwater and saltwater aquatic plant species. Toxicity data were primarily for total metal concentrations, so CFs for hexavalent chromium were applied to the data prior to calculation of SMVs for the SSDs (USEPA 2015). The freshwater and saltwater chronic CFs for hexavalent chromium are 0.962 and 0.993, respectively.

The minimum number of species required for an SSD was represented by the freshwater toxicity data (Figure 1-3). The freshwater SSD was based on four algae species and one vascular plant species (*Lemna minor*) (Table 1-7). The Levy distribution

provided the best-fit curve for the freshwater SMVs (Figure 1-3). The 5th percentile of the distribution (3.5 µg/L) was selected as the chronic freshwater TRV.

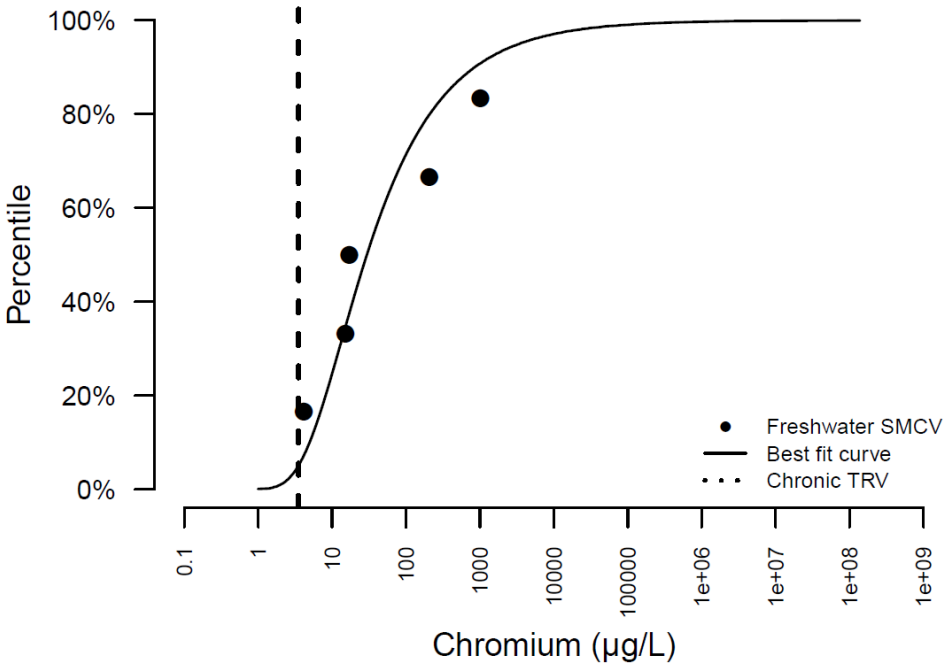

Figure 1-3. Aquatic plant freshwater SSD for chromium

Table 1-7. Ranked aquatic plant freshwater SMVs for chromium

Species Scientific Name	Species Common Name	SMV	Rank	Percentile Rank
Staurastrum cristatum	green algae	4.1	1	17%
Chlorella vulgaris	green algae	15.2	2	33%
Pseudokirchneriella subcapitata	green algae	17.1	3	50%
Scenedesmus acutus	green algae	206	4	67%
Lemna minor	duckweed	1,011	5	83%

SMV – species mean value

Saltwater data were insufficient for an SSD and limited to single-celled organisms, so the TRV selected was the lowest toxicity value of 103 µg/L, which was a 72-hr EC50 for reduced population growth rate of an algae species *(Chlorella protothecoides*) (Table 1-8).

Table 1-8. Ranked aquatic plant saltwater SMVs for chromium

Species Scientific Name	Species Common Name	SMV	Rank	Percentile Rank
Chlorella protothecoides	green algae	103	1	20%
Pseudokirchneriella subcapitata	green algae	496	2	40%
Skeletonema costatum	diatom	8,838	3	60%
Dunaliella tertiolecta	green algae	17,276	4	80%

SMV – species mean value

Copper

Copper toxicity data for freshwater and saltwater aquatic plant species were sufficient to develop SSDs, although the data were primarily for single-celled organisms. The majority of the toxicity data were based on total metal concentrations, so USEPA's chronic CFs for copper were applied to the data prior to calculation of SMVs for the SSDs (USEPA 2015). The freshwater and saltwater CFs are 0.9601 and 0.83, respectively.

The Pearson 6 distribution provided the best-fit curve for the 44 freshwater SMVs (Figure 1-4, Table 1-9). The 5th percentile of the freshwater SSD (1.7 µg/L) was selected as the chronic freshwater TRV. The lognormal distribution provided the best-fit curve for the 40 saltwater SMVs (Figure 1-5, Table 1-10). The 5th percentile of the saltwater SSD (4.1 µg/L) was selected as the chronic saltwater TRV.

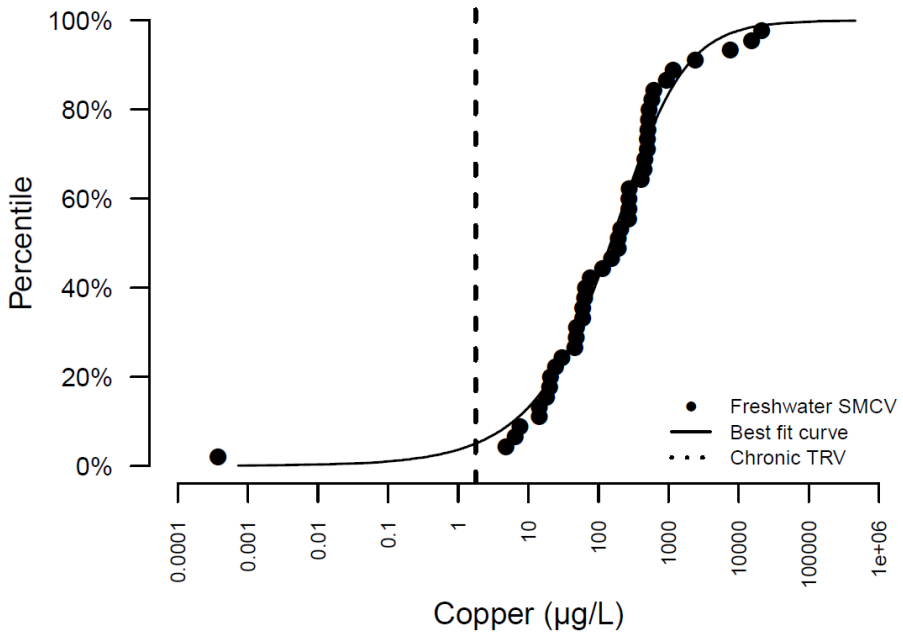

Figure 1-4.Aquatic plant freshwater SSD for copper

Table 1-9. Ranked aquatic plant freshwater SMVs for copper

Species Scientific Name	Species Common Name	SMV	Rank	Percentile Rank
Phaeocystis cordata	marine algae	0.00037	1	2%
Navicula seminulum	diatom	4.8	2	4%
Chlorella sp.	green algae	6.5	3	7%
Staurastrum cristatum	green algae	7.6	4	9%
Staurastrum manfeldtii	green algae	14.4	5	11%
Synedra ulna	diatom	14.4	6	13%
Staurastrum chaetoceras	green algae	18.2	7	16%
Fragilaria capucina	diatom	20.2	8	18%
Odontella mobiliensis	marine diatom	20.6	9	20%
Synechococcus leopoliensis	blue-green algae	24.5	10	22%
Achnanthes minutissima	diatom	30.2	11	24%
Kirchneriella aperta	algae	46.3	12	27%
Pseudokirchneriella subcapitata	green algae	48.5	13	29%
Plantae	plants	48.6	14	31%
Scenedesmus acutus	green algae	59.4	15	33%
Scenedesmus dimorphus	green algae	59.8	16	36%
Fragilaria crotonensis	diatom	63.4	17	38%
Asterionella formosa	diatom	65.3	18	40%
Microcystis aeruginosa	blue-green algae	76.6	19	42%
Urosolenia eriensis	diatom	115	20	44%
Nephrocytium lunatum	algae	153	21	47%
Lemna aequinoctialis	lesser duckweed	192	22	49%
Closterium lunula	green algae	192	23	51%
Chlorella pyrenoidosa	green algae	208	24	53%
Scenedesmus quadricauda	green algae	269	25	56%
Chlamydomonas acidophila	green algae	271	26	58%
Stichococcus bacillaris	green algae	272	27	60%
Lemna minor	duckweed	274	28	62%
Lemna gibba	inflated duckweed	408	29	64%
Scenedesmus subspicatus	green algae	447	30	67%
Chlorella vulgaris	green algae	459	31	69%
Hydrilla verticillata	hydrilla	498	32	71%
Nitzschia palea	diatom	499	33	73%
Cyclotella meneghiniana	diatom	509	34	76%
Stephanodiscus rotula	diatom	516	35	78%

Table 1-9. Ranked aquatic plant freshwater SMVs for copper

Species Scientific Name	Species Common Name	SMV	Rank	Percentile Rank
Chlorella saccharophila	green algae	528	36	80%
Encyonema neomesianum	diatom	576	37	82%
Nitzschia obtuse	diatom	614	38	84%
Navicula confervacea	diatom	931	39	87%
Parachlorella kessleri	green algae	1,163	40	89%
Ceratophyllum demersum	coon-tail	2,400	41	91%
Dunaliella tertiolecta	green algae	7,585	42	93%
Chlorella sorokiniana	green algae	15,324	43	96%
Euglena gracilis	flagellate euglenoid	21,206	44	98%

SMV – species mean value

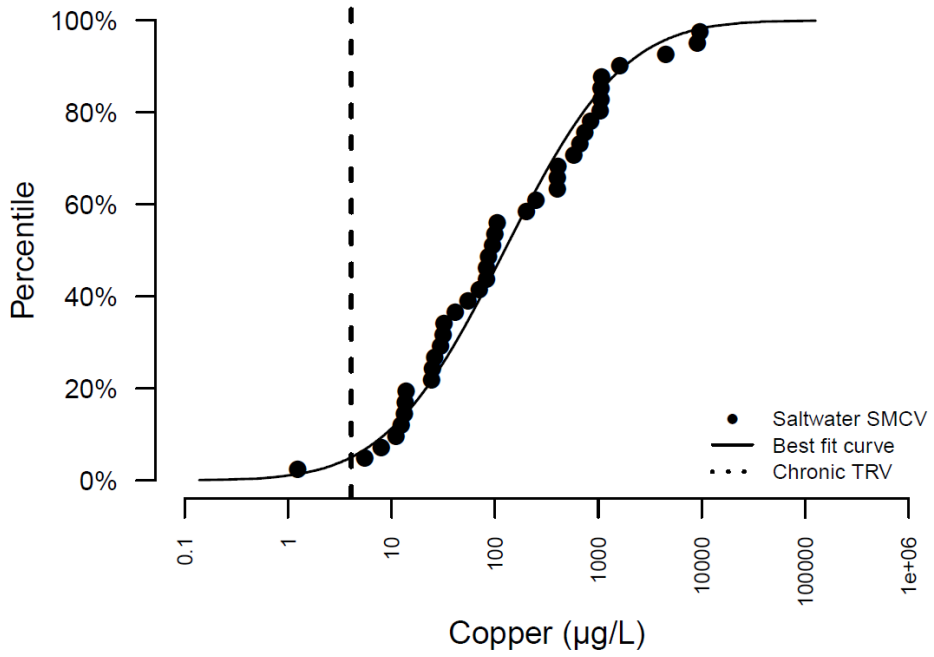

Figure 1-5.Aquatic plant saltwater SSD copper

Table 1-10. Ranked aquatic plant saltwater SMVs for copper

Species Scientific Name	Species Common Name	SMV	Rank	Percentile Rank
Micromonas pusilla	algae	1.2	1	2%
Entomoneis punctulata	algae	5.5	2	5%
Chlorella autotrophica	green algae	8.0	3	7%
Chlorella protothecoides	green algae	11.1	4	10%
Ditylum brightwellii	diatom	12.5	5	12%
Symbiodinium microadriaticum	dinoflagellate	13.4	6	15%
Fucus vesiculosus	bladder wrack	13.6	7	17%
Nannochloris atomus	microalgae	13.9	8	20%
Synechococcus sp.	blue-green algae	24.5	9	22%
Rhodomonas salina	marine microalga	24.9	10	24%
Ulva pertusa	green algae	26.2	11	27%
Fucus serratus	toothed wrack	29.8	12	29%
Cyclotella meneghiniana	diatom	31.5	13	32%
Pseudokirchneriella subcapitata	green algae	32.2	14	34%
Gracilaria tenuistipitata	red algae	41.5	15	37%
Ascophyllum nodosum	brown algae	54.8	16	39%
Pyrocystis lunula	dinoflagellate	70.6	17	41%
Algae	algae	83.0	18	44%
Ulva armoricana	algae	83.0	19	46%
Chlamydomonas bullosa	green algae	87.0	20	49%
Pseudo-nitzschia australis	diatom	94.9	21	51%
Platymonas subcordiformis	green flagellate	100	22	54%
Gracilaria lemaneiformis	red algae	105	23	56%
Amphora acutiuscula	diatom	202	24	59%
Cyanobium sp.	blue-green algae	249	25	61%
Entomoneis paludosa	diatom	403	26	63%
Nitzschia palea	diatom	403	27	66%
Dunaliella tertiolecta	green algae	406	28	68%
Planothidium hauckianum	diatom	581	29	71%
Dunaliella salina	green algae	663	30	73%
Fragilaria pinnata	diatom	739	31	76%
Dunaliella minuta	green algae	845	32	78%
Chlorella pyrenoidosa	green algae	1,043	33	80%
Thalassiosira weissflogii	diatom	1,062	34	83%
Triceratium sp.	diatom	1,062	35	85%

Table 1-10. Ranked aquatic plant saltwater SMVs for copper

Species Scientific Name	Species Common Name	SMV	Rank	Percentile Rank
Amphora coffeaeformis	diatom	1,079	36	88%
Skeletonema costatum	diatom	1,614	37	90%
Prasinococcus sp.	algae	4,482	38	93%
Chlorococcum littorale	algae	9,067	39	95%
Heterocapsa sp.	algae	9,628	40	98%

SMV – species mean value

Lead

Lead toxicity data for freshwater and saltwater aquatic plant species were sufficient to develop SSDs, although the data were primarily for single-celled organisms. The majority of the toxicity data were based on total metal concentrations, so USEPA's chronic CFs for lead were applied to the data prior to calculation of SMVs for the SSDs (USEPA 2015). The freshwater CF of 0.559 for copper is based on an average site-specific hardness value of 490 µg/L calcium carbonate.[2] The saltwater CF of 0.951 is not a hardness-based value.

The inverse Gaussian distribution provided the best-fit curve for the 13 freshwater SMVs (Figure 1-6, Table 1-11). The 5th percentile of the freshwater SSD (251 µg/L) was selected as the chronic freshwater TRV. The Pearson 6 distribution provided the best-fit curve for the 13 saltwater SMVs (Figure 1-7, Table 1-12). The 5th percentile of the saltwater SSD (83 µg/L) was selected as the chronic saltwater TRV.

[2] The equation for converting total cadium concentrations to dissolved cocnetrations for developing a chronic criterion is: 1.46203-(ln hardness*0.145712).

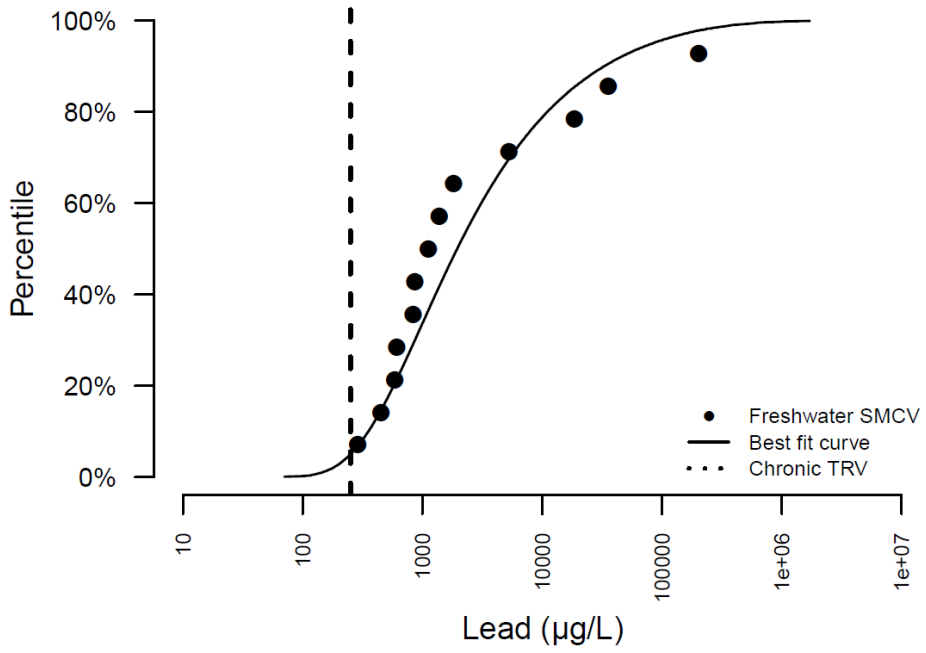

Figure 1-6. Aquatic plant freshwater SSD for lead

Table 1-11. Ranked aquatic plant freshwater SMVs for lead

Species Scientific Name	Species Common Name	SMV	Rank	Percentile Rank
Pseudokirchneriella subcapitata	green algae	288	1	7%
Microcystis aeruginosa	blue-green algae	450	2	14%
Chlorella vulgaris	green algae	588	3	21%
Scenedesmus acutus var. *acutus*	green algae	610	4	29%
Navicula confervacea	diatom	834	5	36%
Cyclotella meneghiniana	diatom	862	6	43%
Scenedesmus quadricauda	green algae	1,121	7	50%
Nitzschia obtusa	diatom	1,382	8	57%
Nitzschia palea	diatom	1,818	9	64%
Typha latifolia	cattail	5,289	10	71%
Eichhornia crassipes	water-hyacinth	18,529	11	79%
Chlorella saccharophila	green algae	35,692	12	86%
Myriophyllum spicatum	Eurasian watermilfoil	203,073	13	93%

SMV – species mean value

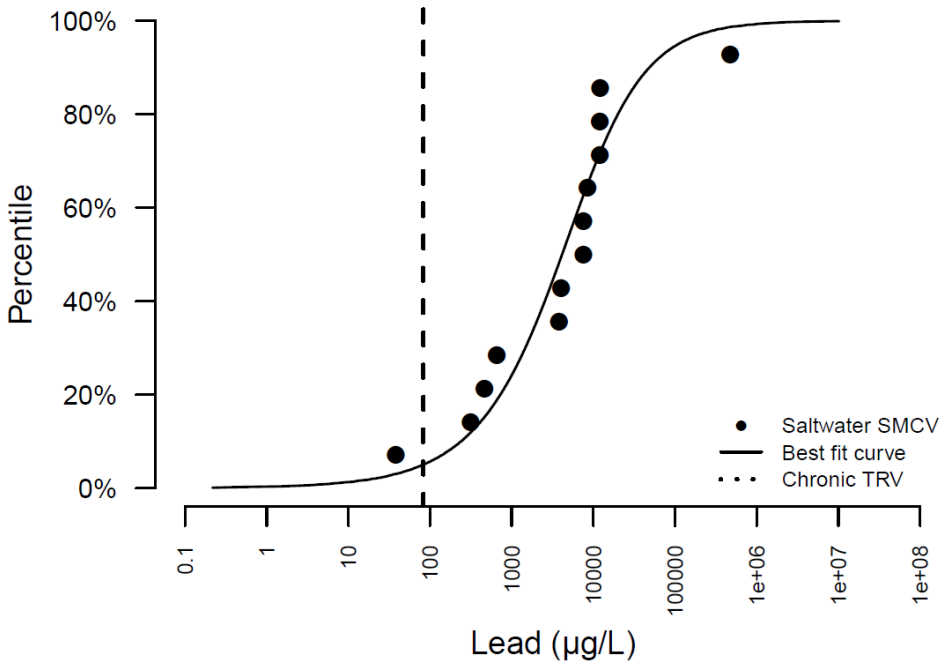

Figure 1-7. Aquatic plant saltwater SSD for lead

Table 1-12. Ranked aquatic plant saltwater SMVs for lead

Species Scientific Name	Species Common Name	SMV	Rank	Percentile Rank
Ditylum brightwellii	diatom	38.0	1	7%
Asterionella japonica	diatom	315	2	14%
Ulva pertusa	green algae	465	3	21%
Cyclotella meneghiniana	diatom	656	4	29%
Gracilaria tenuistipitata	red algae	3,804	5	36%
Skeletonema costatum	diatom	4,042	6	43%
Tabularia fasciculata	pennate diatom	7,551	7	50%
Thalassiosira weissflogii	diatom	7,551	8	57%
Amphora coffeaeformis	diatom	8,473	9	64%
Fragilaria pinnata	diatom	11,973	10	71%
Triceratium sp.	diatom	11,973	11	79%
Planothidium hauckianum	diatom	12,116	12	86%
Halophytophthora elongata	water mold	475,500	13	93%

SMV – species mean value

Mercury

Mercury toxicity data for saltwater aquatic plant species were sufficient to develop an SSD, although 11 of the 13 species were single-celled organisms (Table 1-13). The toxicity data were based on total metal concentrations, so USEPA's chronic saltwater CF for mercury (0.85) was applied to the data prior to calculation of SMVs for the SSD (USEPA 2015). The inverse Gaussian distribution provided the best-fit curve for the 13 saltwater SMVs (Figure 1-8). The 5th percentile of the saltwater SSD (10.7 µg/L) was selected as the chronic saltwater TRV.

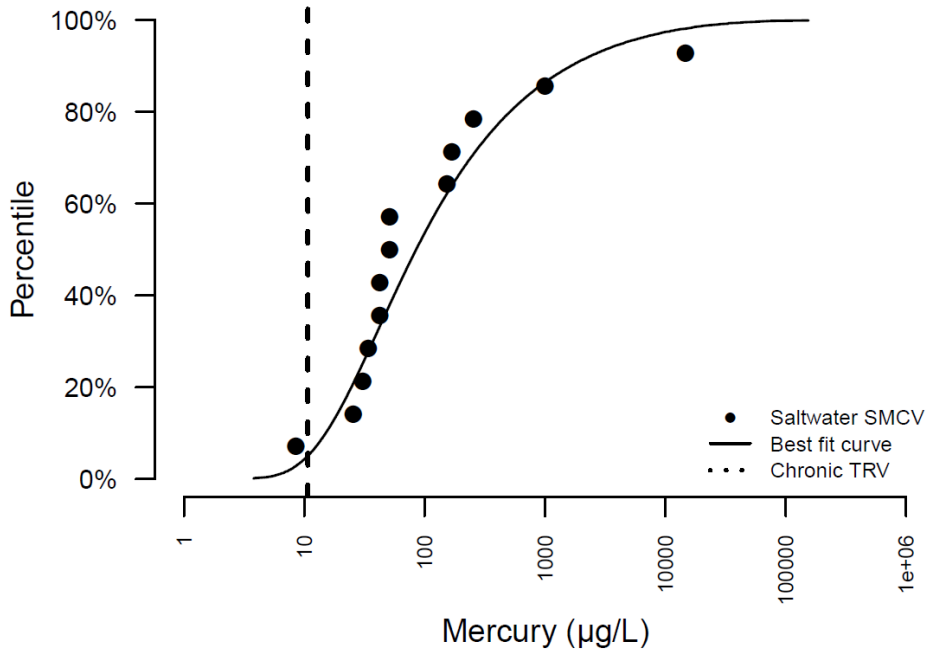

Figure 1-8. Aquatic plant saltwater SSD for mercury

Table 1-13. Ranked aquatic plant saltwater SMVs for mercury

Species Scientific Name	Species Common Name	SMAV	Rank	Percentile Rank
Ditylum brightwellii	diatom	8.5	1	7%
Tabularia fasciculata	pennate diatom	25.5	2	14%
Phaeodactylum tricornutum	diatom	30.6	3	21%
Thalassiosira weissflogii	diatom	34.0	4	29%
Planothidium hauckianum	diatom	42.5	5	36%
Triceratium sp.	diatom	42.5	6	43%
Amphora coffeaeformis	diatom	51.0	7	50%
Fragilaria pinnata	diatom	51.0	8	57%

Species Scientific Name	Species Common Name	SMAV	Rank	Percentile Rank
Gracilaria tenuistipitata	red algae	153	9	64%
Skeletonema costatum	diatom	168	10	71%
Dunaliella tertiolecta	green algae	255	11	79%
Zostera marina	eelgrass	1,003	12	86%
Enhalus acoroides	seagrass	14,680	13	93%

SMV – species mean value

Zinc

Zinc toxicity data for freshwater and saltwater aquatic plant species were sufficient to develop SSDs. The majority of the toxicity data were based on total metal concentrations, so USEPA's chronic CFs for lead were applied to the data prior to calculation of SMVs for the SSDs (USEPA 2015). The freshwater and saltwater CFs for zinc are 0.986 and 0.946, respectively.

The Pearson 6 distribution provided the best-fit curve for the 39 freshwater SMVs (Figure 1-9, Table 1-14). The 5th percentile of the freshwater SSD (25 µg/L) was selected as the chronic freshwater TRV. The Pearson 6 distribution also provided the best-fit curve for the 19 saltwater SMVs (Figure 1-10, Table 1-15). The 5th percentile of the saltwater SSD (0.35 µg/L) was sselected as the chronic saltwater TRV.

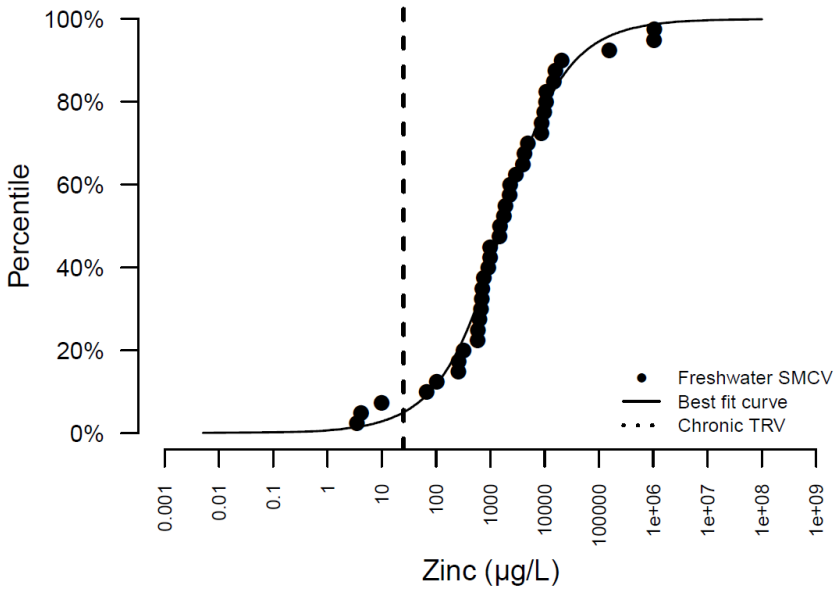

Figure 1-9.Aquatic plant freshwater SSD for zinc

Table 1-14. Ranked aquatic plant freshwater SMVs for zinc

Species Scientific Name	Species Common Name	SMV	Rank	Percentile Rank
Melosira granulata	diatom	3.5	1	3%
Aquatic Community	aquatic community	4.2	2	5%
Synechococcus leopoliensis	blue-green algae	10.0	3	8%
Lunulospora curvula	hyphomycete	67.2	4	10%
Pseudokirchneriella subcapitata	green algae	104	5	13%
Phaeodactylum tricornutum	diatom	259	6	15%
Chlorella saccharophila	green algae	260	7	18%
Lemna trisulca	duckweed	322	8	20%
Navicula confervacea	diatom	582	9	23%
Nitzschia palea	diatom	592	10	25%
Desmodesmus subspicatus	green algae	631	11	28%
Elodea canadensis	waterweed	672	12	30%
Cyclotella meneghiniana	diatom	700	13	33%
Stichococcus bacillaris	green algae	714	14	35%
Scenedesmus subspicatus	green algae	757	15	38%
Nitzschia obtusa	diatom	917	16	40%
Gomphonema parvulum	diatom	986	17	43%
Typha latifolia	cattail	986	18	45%
Chlorella vulgaris	green algae	1,476	19	48%
Scenedesmus quadricauda	green algae	1,516	20	50%
Lemna aequinoctialis	lesser duckweed	1,775	21	53%
Euglena gracilis	flagellate euglenoid	1,910	22	55%
Parachlorella kessleri	green algae	2,273	23	58%
Azolla pinnata	water velvet	2,308	24	60%
Ceratophyllum demersum	coon-tail	2,958	25	63%
Lemna minor	duckweed	4,001	26	65%
Spirodela polyrhiza	large duckweed	4,257	27	68%
Chilomonas paramecium	cryptomonad	4,930	28	70%
Scenedesmus acutus var. *acutus*	green algae	8,677	29	73%
Myriophyllum sibiricum	water milfoil	8,861	30	75%
Achnanthes lanceolata	diatom	9,860	31	78%
Chlamydomonas reinhardtii	green algae	10,660	32	80%
Schoenoplectus californicus	giant bulrush	10,787	33	83%
Ipomoea aquatica	swamp morning glory	14,790	34	85%
Eichhornia crassipes	water-hyacinth	15,919	35	88%

Table 1-14. Ranked aquatic plant freshwater SMVs for zinc

Species Scientific Name	Species Common Name	SMV	Rank	Percentile Rank
Myriophyllum spicatum	Eurasian watermilfoil	20,607	36	90%
Chlamydomonas acidophila	green algae	155,894	37	93%
Euglena mutabilis	flagellate euglenoid	1,034,733	38	95%
Azolla mexicana	Mexican mosquitofern	1,054,034	39	98%

SMV – species mean value

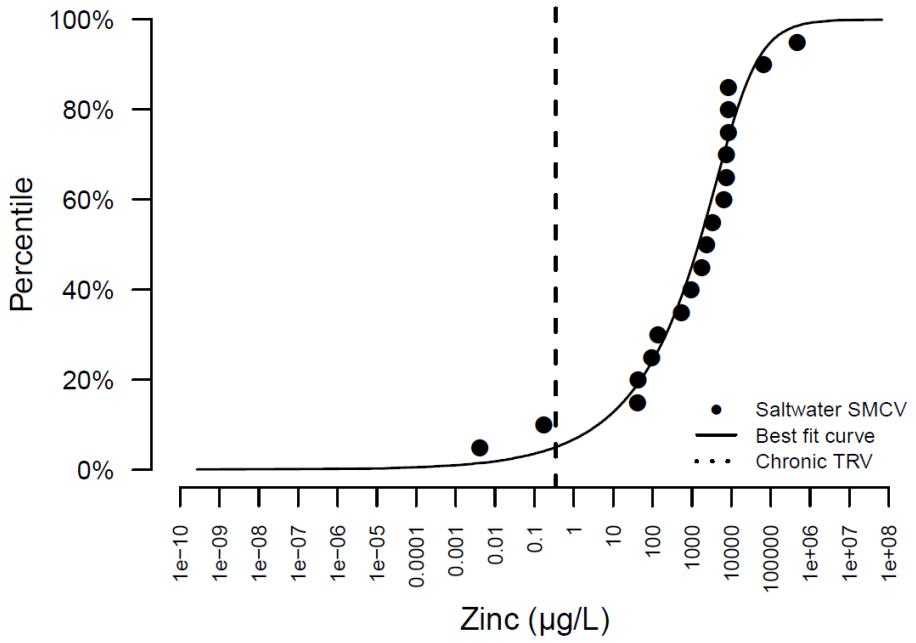

Figure 1-10. Aquatic plant saltwater SSD for zinc

Table 1-15. Ranked aquatic plant saltwater SMVs for zinc

Species Scientific Name	Species Common Name	SMV	Rank	Percentile Rank
Synechococcus sp.	blue-green algae	0.0041	1	5%
Plankton sp.	plankton	0.17	2	10%
Chlorella sp.	green algae	41.6	3	15%
Dunaliella tertiolecta	green algae	43.1	4	20%
Ditylum brightwellii	diatom	94.6	5	25%
Asterionella japonica	diatom	137	6	30%
Ulva pertusa	green algae	541	7	35%

Table 1-15. Ranked aquatic plant saltwater SMVs for zinc

Species Scientific Name	Species Common Name	SMV	Rank	Percentile Rank
Symbiodinium muscatinei	dinoflagellate	946	8	40%
Cyclotella meneghiniana	diatom	1,788	9	45%
Skeletonema costatum	diatom	2,364	10	50%
Tabularia fasciculata	pennate diatom	3,349	11	55%
Zostera marina	eelgrass	6,447	12	60%
Planothidium hauckianum	diatom	7,511	13	65%
Thalassiosira weissflogii	diatom	7,511	14	70%
Amphora coffeaeformis	diatom	8,429	15	75%
Fragilaria pinnata	diatom	8,429	16	80%
Triceratium sp.	diatom	8,429	17	85%
Phaeodactylum tricornutum	diatom	66,027	18	90%
Halophytophthora elongata	water mold	473,000	19	95%

SMV – species mean value

Tributyltin

TBT toxicity data were limited for freshwater and saltwater aquatic plant species. Data were selected for tributyltin chloride (TBTC), tributyltin fluoride (TBTF), and tributyltin oxide (TBTO). Reported concentrations for these compounds were converted to TBT cation concentrations for comparison using CFs of 0.8911 for TBTC, 0.9385 for TBTF, and 0.9477 for TBTO (USEPA 2003). Freshwater toxicity data were insufficient for an SSD, so the lowest toxicity value of 0.00052 µg/L TBT was selected as the TRV. The TRV is based on a 96-hr EC50 for reduced population abundance of an algal species (*Scenedesmus acutus var. acutus*).

Saltwater toxicity data were sufficient for an SSD, although all nine species are single-celled organisms (Table 1-16). The log-logistic distribution provided the best-fit curve for the nine saltwater SMVs (Figure 1-11). The 5th percentile of the saltwater SSD (0.023 µg/L) was selected as the chronic saltwater TRV.

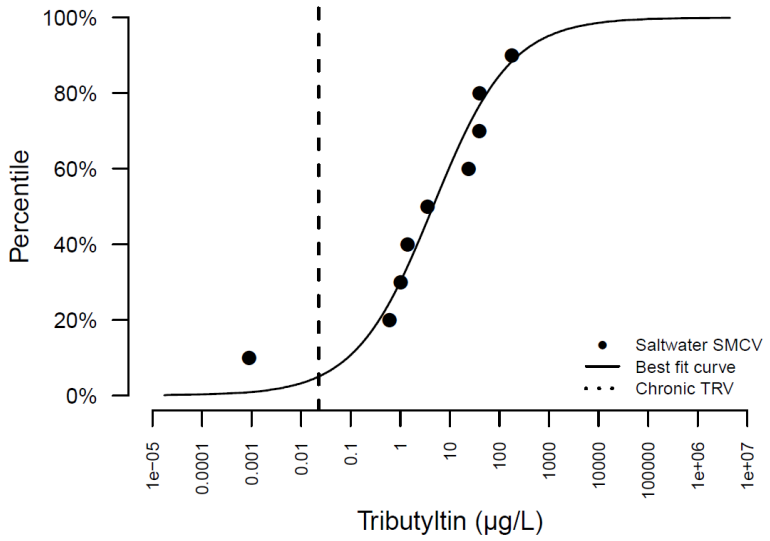

Figure 1-11. Aquatic plant saltwater SSD for tributyltin

Table 1-16. Ranked aquatic plant saltwater SMVs for tributyltin

Species Scientific Name	Species Common Name	SMV	Rank	Percentile Rank
Phyllospora comosa	brown Algae	0.0008	1	10%
Dunaliella sp.	green algae	0.61	2	20%
Phaeodactylum tricornutum	diatom	1.0	3	30%
Algae	algae	1.4	4	40%
Nitzschia closterium	diatom	3.6	5	50%
Porphyra yezoensis	red algae	24.1	6	60%
Chlorella vulgaris	green algae	39.3	7	70%
Skeletonema costatum	diatom	40.0	8	80%
Entomoneis punctulata	algae	178	9	90%

PCBs

Aquatic plant toxicity data for PCBs were extremely limited for saltwater plant species (EPA 2013). Toxicity values for various single-celled organisms exposed to PCB mixtures (e.g., Aroclor 1254) ranged from 0.10 to 1,070 µg/L. Since data were insufficient for the derivation of an SSD, the lowest value of 0.10 µg/L, which is a 5-day LOEC for decreased population abundance of marine phytoplankton, was selected as the saltwater TRV for PCBs.

Cyanide

Cyanide toxicity data for saltwater plant species were extremely limited to single-celled organisms (e.g., algae and diatoms). Since data were insufficient for the

derivation of an SSD, the lowest toxicity value of 4.9 µg/L, which is a 20-day LOEL for reduced population abundance of algae, was selected as the saltwater TRV.

1.1.3.3 TRV uncertainties

Aquatic plant-specific toxicity data are largely limited to single-celled aquatic plant organisms (e.g., algae, microalgae, diatom, dinoflaggellate, and euglenoid), and selected TRVs are based on diatom or algae species; effects on submergent plant species are largely unknown. All TRVs are based on single-celled aquatic plant species. For all final aquatic plant surface water COPECs, except for PCBs and cyanide, TRVs are based on the 5th percentile of SSDs. PCBs and cyanide are based on single species.

1.1.4 Risk characterization

HQs calculated for the final aquatic plant surface water COPECs are presented in Table 1-17. Appendix G (Table G24) also includes EPC, TRVs, and HQs for aquatic plant surface water COPECs. Concentrations in surface water samples exceeded TRVs for four COPECs: copper, zinc, TBT, and cyanide. Copper had a freshwater HQ ≥ 1.0, and TBT had HQs ≥ 1.0 for both the estuarine and freshwater portions of the LPRSA. Copper was detected in 100% of samples between RM 0 and RM 17.4. TBT was detected in only 1% of estuarine and freshwater samples, and HQs were based on the maximum concentration. Since surface water grab samples were collected as single-point grab samples (rather than continuous flow samples), the maximum concentration may not accurately represent exposure concentrations over an extended period of time. Zinc and cyanide had HQs ≥ 1 only for the estuarine portion of the LPRSA. Zinc was detected in 100% of samples below RM 13. Cyanide was detected in < 6% of estuarine samples and < 11% of freshwater samples.

Table 1-17. Surface water HQs for aquatic plants

Final COPEC	HQ[a]	
	Estuarine	Freshwater
Metals		
Cadmium	0.008	0.021
Chromium	0.009	0.34
Copper	0.64	**1.8**
Lead	0.014	0.007
Mercury	0.001	na[a]
Zinc	**21**	0.34
Butlytins		
TBT	**1.1**	**50**
PCBs		
Total PCBs	0.26	na[a]

Final COPEC	HQ[a]	
	Estuarine	Freshwater
PCDD/PCDFs		
2,3,7,8-TCDD	na[b]	na[b]
Pesticides		
4,4'-DDE	na[b]	na[b]
Other		
Cyanide	**2.0**	na[a]

Note: Final COPECs are those preliminary COPECs for which the maximum surface water concentration exceeded its intermediate TSV.

Bold identifies HQs ≥ 1.0.

[a] The maximum freshwater concentration did not exceed the intermediate freshwater TSV, so a freshwater TRV was not selected and freshwater HQs were not calculated.

[b] Toxicity data were not available to develop aquatic plant-specific TRVs, so no HQs were derived.

COPEC – chemical of potential ecological concern
DDE – dichlorodiphenyldichloroethylene
HQ – hazard quotient
na – not applicable
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzodioxins
PCDF – polychlorinated dibenzofurans
TBT – tributyltin
TCDD – tetrachlorodibenzo-*p*-dioxin
TRV – toxicity reference value
TSV – toxicity screening value

1.1.5 Summary of key uncertainties

The evaluation of potential risk to aquatic plants from surface water is limited. Available aquatic plant surface water toxicity data are limited to single-celled organisms with a wide range of sensitivity. Potential risk to other submergent or emergent plant species is unknown due to the lack of available toxicological data for these plant species. In addition, non-chemical stressors that affect the establishment of robust aquatic plant communities along the LPRSA—such as limited habitat, the presence of non-native species, and destruction by carp— are not accounted for in the comparison of surface water chemistry to toxicity thresholds.

1.1.6 Summary

Of the 11 final aquatic plant surface water COPECs evaluated for aquatic plants, TRVs could only be developed for nine. Aquatic plant-specific toxicity data were not available for two COPECs: 2,3,7,8-TCDD and 4,4′-DDE. Of the nine final aquatic plant surface water COPECs with TRVs, four had HQs ≥ 1.0: copper, zinc, TBT, and cyanide. Copper had a freshwater HQ ≥ 1, and TBT HQs were ≥ 1 for both the estuarine and freshwater portions of the LPRSA, although TBT was infrequently detected in LPRSA samples. TBT was detected in 1% of estuarine and freshwater samples; cyanide was also infrequently detected in LPRSA samples (< 6% of estuarine samples and < 11% of freshwater samples). Risk estimates for aquatic plants are uncertain because surface water toxicity data are limited, and available data are based on single-celled organisms

with a wide range of sensitivity. Potential risk to other submergent or emergent plant species is unknown due to the lack of available toxicological data.

1.2 SEDIMENT ASSESSMENT

To evaluate the effect of sediment COPEC concentrations on aquatic plants, sediment EPCs were compared with plant-specific soil TRVs to derive risk estimates.

1.2.1 COPECs

COPECs for aquatic plants were determined for sediment in the SLERA (Section 5; Appendix A) in instances when maximum sediment concentrations exceeded soil screening thresholds for terrestrial plants. Aquatic plant COPECs are presented in Table 1-18. For these COPECs, exposure-based concentrations (Section 1.2.2) were compared with toxicity-based values (Section 1.2.3) to derive aquatic plant HQs (Section 1.2.4).

Table 1-18. Sediment COPECs evaluated for aquatic plants

COPEC		
Metals		
Antimony	Cobalt	Nickel
Arsenic	Copper	Selenium
Cadmium	Lead	Vanadium
Chromium	Mercury	Zinc
PAHs		
Acenaphthene		

COPEC – chemical of potential ecological concern
PAH – polycyclic aromatic hydrocarbon

1.2.2 Exposure

All LPRSA surface (0 to 15 cm deep) sediment data, including both freshwater and estuarine sediment data from RM 0 to RM 17.4, were evaluated to estimate aquatic plant exposure to sediment. Estuarine- and freshwater-specific sediment TRVs were not developed (Section 1.2.3), so LPRSA sediment data from throughout the LPRSA were evaluated for each COPEC. Sediment EPCs were based on a conservative upper-bound mean estimate (i.e., UCL concentration). Table 1-19 presents the site-wide sediment EPCs.

Table 1-19. Summary statistics of COPEC concentrations in LPRSA surface sediment

COPEC	Detection Frequency		Concentration			
	No. of Detects/ No. of Samples	%	Min.	Max.	Mean[a]	UCL
Metals (mg/kg)						
Antimony	423/426	99	0.03	11.8	0.98	1.1
Arsenic	426/426	100	0.48	118	7.6	9.6
Cadmium	426/426	100	0.053	46.6	3.7	4.9
Chromium	426/426	100	4.03	1,580	120	160
Cobalt	423/423	100	1.8	25.6	7.2	7.5
Copper	503/503	100	4.19	930	140	170
Lead	422/422	100	3.94	2,050	230	270
Mercury	429/429	100	16.1	24,300	2,200	2,900
Nickel	501/501	100	4.15	200	28	32
Selenium	341/ 406	84	0.038	5.2	0.95	0.93
Vanadium	426/426	100	3.99	110	24	27
Zinc	426/426	100	23.5	2,000	420	490
PAHs (µg/kg)						
Acenaphthene	423/427	99	1.3	142,000	1,000	2,600

Note: The UCL was selected as the EPC.

[a] The mean was calculated with detected concentrations only.

COPEC – chemical of potential ecological concern
EPC – exposure point concentration
LPRSA – Lower Passaic River Study Area
PAH – polycyclic aromatic hydrocarbon
UCL – upper confidence (limit on the mean)

The primary uncertainty associated with the exposure assessment of aquatic plants is the limited presence of aquatic plants in the LPRSA due to other non-chemical stressors, primarily commercial/industrial/urban, residential, and recreational land use and infrastructure along the LPRSA shoreline. Sediment EPCs are based on concentrations in sediment collected throughout the LPRSA, including both mudflat and subtidal areas where aquatic vegetation is extremely limited or nonexistent.

1.2.3 Effects

Plant-specific effects thresholds were developed based on the available toxicity data.

1.2.3.1 TRV Selection

The literature was searched for toxicity data pertaining to rooted plants in aquatic systems. No data were found to relate concentrations in sediment to potential adverse impacts on rooted plants in aquatic systems.

Because toxicity data for effects on aquatic plants exposed to contaminated sediment were not available, soil-based TRVs were used to develop risk estimates for sediment COPECs and aquatic plants. These soil-based TRVs are based on USEPA's current ecological soil screening levels (Eco-SSLs) (USEPA 2010). Eco-SSLs represent a calculated geometric mean of toxicity values based on a review of soil toxicity data and terrestrial plants. If Eco-SSLs were not available for a particular COPEC, then the Oak Ridge National Laboratory (ORNL) soil screening benchmark from Efroymson et al. (1997) was selected. ORNL screening benchmarks represent a 10th percentile of lowest-observed-adverse-effect levels (LOAELs) reported in the literature (or the lowest LOAEL available if limited data were available), which is considered conservative for the screening of chemicals in soil (Efroymson et al. 1997). These plant soil TRVs are presented in Table 1-20.

Table 1-20. Plant soil TRVs

COPEC	TRV (mg/kg dw)[a]	TRV source
Metals		
Antimony	5	ORNL screening benchmark based on unspecified, qualitative toxic effects in plants grown in surface soil from a single study; confidence in this benchmark is low (Efroymson et al. 1997).
Arsenic	18	Eco-SSL based on geometric mean of the MATCs (ranging from 4 to 69 mg/kg dw) for growth from two studies for three species (i.e., ryegrass, cotton, and rice) under different soil test conditions (pH and percent organic matter) (USEPA 2005a).
Cadmium	32	Eco-SSL based on geometric mean of the MATCs (ranging from 9 to 79 mg/kg dw) for growth from 7 studies for 13 species (i.e., ryegrass, lettuce, tomato, oats, corn, garlic, barley, white pine, yellow birch, choke cherry, loblolly pine, red oak, and alfalfa) under different soil test conditions (pH and percent organic matter) (USEPA 2005a).
Chromium	1	ORNL screening benchmark based on the approximate 10th percentile of growth LOECs reported for soybean, lettuce, tomato, and oats following exposure to hexavalent chromium in soil in two studies (LOECs ranging from 1.8 to 31 mg/kg dw); confidence in this benchmark is low-moderate (Efroymson et al. 1997).
Cobalt	13	Eco-SSL based on the geometric mean of the EC20 values (ranging from 0.60 to 45 mg/kg dw) for growth from one study for three species (i.e., alfalfa, barley, and radish) under different test conditions (pH and percent organic matter) (USEPA 2005b).
Copper	70	Eco-SSL based on geometric mean of the MATC and EC10 values (ranging from 16 to 251 mg/kg dw) for reproduction or growth from six studies for four species (i.e., black bindweed, citrus cultivar, perennial ryegrass, and alfalfa) under different soil test conditions (pH and percent organic matter) (USEPA 2007a).
Lead	120	Eco-SSL based on geometric mean of the MATC values (ranging from 22 to 316 mg/kg dw) for growth from three studies for four species (i.e., loblolly pine, red maple, berseem clover, and ryegrass) under different soil test conditions (pH and percent organic matter) (USEPA 2005b).

Table 1-20. Plant soil TRVs

COPEC	TRV (mg/kg dw)[a]	TRV source
Mercury	0.3	ORNL screening benchmark based on unspecified toxic effects on plants grown in surface soil from a secondary source (no primary reference data available); confidence in this benchmark is low (Efroymson et al. 1997).
Nickel	38	Eco-SSL based on geometric mean of the MATC and EC20 values (ranging from 7 to 177 mg/kg dw) for reproduction or growth from six studies for six species (i.e., alfalfa, barley, brassica, red oak, ryegrass, and oat) under different soil test conditions (pH and percent organic matter) (USEPA 2007b).
Selenium	0.52	Eco-SSL based on the geometric mean of the MATC and EC20 values (ranging 0.1 to 1.6 mg/kg dw) for growth from five studies for six species (i.e., alfalfa, barley, brassica, raya, berseem, and cowpea) under different test conditions (pH and percent organic matter) (USEPA 2007c).
Vanadium	2	ORNL screening benchmark based on unspecified toxic effects on plants grown in surface soil from a secondary source (no primary reference data available); confidence in this benchmark is low (Efroymson et al. 1997).
Zinc	160	Eco-SSL based on geometric mean of the MATC values (ranging from 143 to 185 mg/kg dw) for growth from five studies for three species (i.e., soybean, oats, and lettuce) under different soil test conditions (pH and percent organic matter) (USEPA 2007c).
Organic Compounds		
Acenaphthene	25	ORNL screening benchmark based on a growth EC50 concentration reported for lettuce in loam soil (24% clay) following exposure in soil reported in single study; confidence in this benchmark is low (Efroymson et al. 1997).

[a] NOAEL TRVs were not developed for soil and plants; plant soil TRVs were based on effects levels from the literature.

COPEC – chemical of potential ecological concern
dw – dry weight
EC10 – concentration that causes a non-lethal effect in 10% of an exposed population
EC20 – concentration that causes a non-lethal effect in 20% of an exposed population
EC50 – concentration that causes a non-lethal effect in 50% of an exposed population
Eco-SSL – ecological soil screening level
LOEC – lowest-observed-effect concentration
MATC – maximum acceptable toxicant concentration
NOAEL – no observed adverse effect level
ORNL – Oak Ridge National Laboratory
TRV – toxicity reference value

1.2.3.2 TRV Uncertainties

There is high uncertainty associated with the use of terrestrial plant toxicity data from contaminated soils (developed mainly from studies of agricultural crops) for the evaluation of aquatic plant toxicity from contaminated sediment. The sensitivity of terrestrial plants relative to the sensitivity of those that grow in the aquatic habitat present in the LPRSA is unknown. The toxicity data available for these species is widely variable, with reported concentrations that range over two orders of magnitude, depending in part on the endpoint and exposure conditions (USEPA 2010) (Table 1-6). In addition, plant soil TRVs from both USEPA (2010) and Efroymson et al. (1997) are conservative screening thresholds, and therefore likely overestimate risk to

the plant community. By definition, Eco- SSLs (USEPA 2010) were derived to avoid the underestimation of risk (USEPA 2005c). USEPA (2010) states that reported soil thresholds are generally not appropriate for use as site-specific cleanup levels.

1.2.4 Risk characterization

HQs calculated for the sediment COPECs are presented in Table 1-21. Appendix G (Table G24) also includes EPC, TRVs, and HQs for aquatic plant sediment COPECs. Of the 13 COPECs evaluated for plants, 7 have HQs ≥ 1.0 based on a site-wide UCL: chromium, copper, lead, mercury, selenium, vanadium, and zinc. HQs were generally low for these COPECs (HQs based on site-wide UCLs were < 5.0), except for chromium, mercury, and vanadium (Table 1-21).

Table 1-21. Sediment HQs for aquatic plants

COPEC	HQ[a] UCL
Metals	
Antimony	0.22
Arsenic	0.53
Cadmium	0.15
Chromium	**160**
Cobalt	0.58
Copper	**2.4**
Lead	**2.3**
Mercury	**9.7**
Nickel	0.84
Selenium	**1.8**
Vanadium	**14**
Zinc	**3.1**
PAHs	
Acenaphthene	0.10

Bold identifies HQs ≥ 1.0.

[a] HQs based on UCL EPCs presented in Table 1-19 and TRVs presented in Table 1-20.

COPEC – chemical of potential ecological concern
EPC – exposure point concentration
HQ – hazard quotient
PAH – polycyclic aromatic hydrocarbon
UCL – upper confidence limit on the mean

LPRSA concentrations of aquatic plant COPECs in sediment were compared to background sediment concentrations for all COPECs with LOAEL TRV HQs ≥ 1.0. Four background datasets were developed for use in the BERA using available data from the following areas: 1) upstream of Dundee Dam, to represent a freshwater urban area, 2) Jamaica Bay/Lower Harbor, to represent an urban estuarine area, 3) Mullica River/Great Bay, to represent a rural estuarine/freshwater area, and 4) Mullica River,

to represent a rural freshwater area. These datasets are summarized in Section 4.2 of the BERA, and details on how background values were determined from these datasets are presented in Appendix J.

Table 1-22 presents a comparison of sediment EPCs for aquatic plants from the LPRSA and from background areas. The LPRSA EPCs for copper, lead, selenium, vanadium, and zinc were less than upstream concentrations. LPRSA EPCs for chromium and mercury were greater than upstream concentrations. Of the seven COPECs with aquatic plant sediment HQs ≥ 1.0, LPRSA EPCs for copper and selenium were less than Jamaica Bay/Lower Harbor maximum concentrations; the selenium EPC was also less than the Mullica River/Great Bay maximum concentrations. All LPRSA EPCs were greater than the Mullica River (freshwater) concentrations. No Mullica River (freshwater) data were available for vanadium. Upstream and Jamaica Bay/Lower Harbor concentrations were greater than the LOAEL TRV for all COPECs; Mullica River/Great Bay concentrations were greater that the LOAEL TRVs for chromium, mercury, selenium, and vanadium. Mullica River (freshwater) concentrations were greater than the LOAEL TRVs for chromium and selenium.

Table 1-22. Comparison of aquatic plant sediment LPRSA EPCs to background

COPEC	Units (dw)	LPRSA				Above Dundee Dam			Mullica River (Freshwater)			Jamaica Bay (Estuarine)			Mullica River and Great Bay (Estuarine)			LOAEL TRV
		N	EPC	Min. Detect	Max. Detect	N	Min. Detect	Max. Detect[a]	N	Min. Detect	Max. Detect[a]	N	Min. Detect	Max. Detect[a]	N	Min. Detect	Max. Detect[a]	
Metals																		
Chromium	mg/kg	426	**160**	4.03	1580	30	7.5	**54.9**	5	5.2	**15.9**	66	1	**114**	23	2	**93**	1
Copper	mg/kg	503	**170**	4.19	930	36	17.3	**209**	5	2.62	4.2	66	1.04	**196**	24	1	36.8	70
Lead	mg/kg	422	**270**	3.94	2,050	30	37.9	**405**	5	7.33	17.2	66	2	**195**	23	2.4	55.9	120
Mercury	µg/kg	429	**2,900**	16.1	24,300	29	189	**2,000**	5	17	20	66	27.2	**750**	25	13	**390**	300
Selenium	mg/kg	406	**0.93**	0.038	5.2	30	0.04	**2.7**	5	0.05	**0.87**	66	0.04	**3.58**	21	0.19	**2.2**	0.52
Vanadium	mg/kg	426	**27**	3.99	110	30	7.79	**35.6**				1	2.9	**2.9**	4	8.4	**69.5**	2
Zinc	mg/kg	426	**490**	23.5	2,000	30	98.1	**822**	5	4.9	24	66	4.81	**451**	22	5	156	160

Bold identifies EPCs and maximum values greater than the LOAEL TRV.

[a] Details on derivation of background sediment values are presented in Appendix J.

COPEC – chemical of potential ecological concern

dw – dry weight

EPC – exposure point concentration

LOAEL – lowest-observed-adverse-effect level

LPRSA – Lower Passaic River Study Area

TRV – toxicity reference value

1.2.5 Summary of key uncertainties

There is high uncertainty associated with the use of TRVs based entirely on toxicity data for terrestrial plants in contaminated soils for the evaluation of aquatic plant toxicity from contaminated sediment, particularly since the soil toxicity data are primarily from studies of agricultural crops and/or waste soils. Many of these soil toxicity data are based on a highly bioavailable chemical form that is not representative of natural soils or sediment (Efroymson et al. 1997). Several of the TRVs (e.g., antimony, mercury, and vanadium) are based on unspecified toxic effects for terrestrial plant species. The sensitivity of terrestrial plants relative to the sensitivity of those that grow in the aquatic habitat present in the LPRSA is unknown. Plant soil TRVs from both USEPA (2010) and Efroymson et al. (1997) are conservative screening thresholds, and therefore likely overestimate risk to the plant community. By definition, Eco-SSLs (USEPA 2010) were derived to avoid the underestimation of risk (USEPA 2005c). USEPA (2010) states that reported soil thresholds are generally not appropriate for use as site-specific cleanup levels.

For the seven COPECs with HQs ≥ 1.0 (chromium, copper, lead, mercury, selenium, vanadium, and zinc), the majority of the maximum background sediment concentrations also exceed the soil TRVs (Table 1-22), which further indicates that these TRVs are not a good measure of risk to the aquatic plant community in the LPRSA. In addition, non-chemical stressors that affect the establishment of robust aquatic plant communities along the LPRSA—such as limited habitat, the presence of non-native species, and destruction by carp—are not accounted for in the comparison of sediment chemistry to toxicity thresholds.

1.2.6 Summary

Of the 13 sediment COPECs evaluated for aquatic plants, 7 had HQs ≥ 1.0 based on a site-wide UCL: chromium, copper, lead, mercury, selenium, vanadium, and zinc. HQs were generally low for these COPECs (HQs based on site-wide UCLs were < 5.0), except for chromium, mercury, and vanadium. The LPRSA UCL is within or near the range of background concentrations for all COPECs, indicating similar exposure concentrations of aquatic plant COPECs in the LPRSA, including metals and acenaphthene. Sediment HQs for aquatic plants are based on highly conservative TRVs that were primarily developed from terrestrial plant toxicity data for highly bioavailable metals in agricultural soils, some for unknown toxic effects. The relevance of these soil toxicity data to the sediment exposure of aquatic plants is unknown, thus there is high uncertainty in the calculated risk estimates.

1.3 RISK CONCLUSIONS

The potential for unacceptable risk from COPECs to aquatic plants in the LPRSA was evaluated based on the conceptual site model (CSM). Specifically, the risk assessment for aquatic plants evaluated Assessment Endpoint No. 8:

- Maintenance of healthy aquatic plant populations as a food resource and habitat for fish and wildlife populations.

The potential for risk to aquatic plants was characterized using LPRSA surface sediment and surface water chemistry. Surface water and sediment data were compared to media-specific TRVs to derive risk estimates (HQs).

Eleven surface water COPECs and 13 sediment COPECs were evaluated for this receptor group. COPECs with HQs ≥ 1.0 were identified as preliminary COCs for aquatic plants for surface water and sediment. Seven preliminary COCs (chromium, copper, lead, mercury, selenium, vanadium, and zinc) were identified for aquatic plants based on the sediment LOE, and four preliminary COCs (copper [freshwater], zinc [estuarine], TBT, and cyanide [estuarine]) were identified for aquatic plants based on the surface water LOE. However, all preliminary COCs for aquatic plants have high uncertainty. The paucity and questionable applicability of both exposure and effects data—especially for the sediment evaluation, which was based on terrestrial plants and soil—reduce the level of certainty for the quantitative estimates of risk to the aquatic plant community.

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APPENDIX P. SEDIMENT QUALITY TRIAD LINES OF EVIDENCE FOR THE BERA OF LPRSA BENTHIC INVERTEBRATES

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Acronyms

AFDW	ash-free dry weight
AIC	Akaike's information criterion
ASTM	American Society for Testing and Materials
AVS	acid volatile sulfide
BERA	baseline ecological risk assessment
BHC	benzene hexachloride
BIC	Bayesian information criterion
COI	chemical of interest
COPEC	chemical of potential ecological concern
CPG	Cooperating Parties Group
CSM	conceptual site model
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DDT	dichlorodiphenyltrichloroethane
DO	dissolved oxygen
EFA	exploratory factor analysis
EqP	equilibrium partitioning
ERA	ecological risk assessment
ERL	effect range-low
ERM	effect range-median
HBI	Hilsenhoff Biotic Index
HPAH	high-molecular weight polycyclic aromatic hydrocarbon
ID	identification
IQR	interquartile range
LOE	line of evidence
LPAH	low-molecular weight polycyclic aromatic hydrocarbon
LPRSA	Lower Passaic River Study Area
LRM	logistic regression model
mERMq	mean effect range-median quotient
MLR	multiple linear regression

mPECq	mean probable effects concentration quotient
MSD	minimum significant difference
NJDEP	New Jersey Department of Environmental Protection
NOAA	National Oceanic and Atmospheric Administration
NYSDEC	New York State Department of Environmental Conservation
OC	organic carbon
PAH	polycyclic aromatic hydrocarbon
PC	principal component
PCB	polychlorinated biphenyl
PCA	principal component analysis
PCDD	polychlorinated dibenzo-*p*-dioxin
PCDF	polychlorinated dibenzofuran
PEC	probable effects concentration
ppt	parts per thousand
PRESS	predicted residual error sum of squares
QA/QC	quality assurance/quality control
REMAP	Regional Environmental Monitoring and Assessment Program
RM	river mile
SDI	Swartz's dominance index
SEM	simultaneously extracted metals
SOP	standard operating procedure
SPI	sediment profile imaging
SQT	sediment quality triad
SVOC	semivolatile organic compound
T20	20% probability of observing toxicity
T50	50% probability of observing toxicity
TCDD	tetrachlorodibenzo-*p*-dioxin
TEQ	toxic equivalent
TOC	total organic carbon
Total DDx	sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
USEPA	US Environmental Protection Agency

USGS	US Geological survey
VIF	variance inflation factor
Windward	Windward Environmental LLC
WOE	weight of evidence

1 Introduction

This appendix to the baseline ecological risk assessment (BERA) for the Lower Passaic River Study Area (LPRSA) provides the methods and results for the three lines of evidence (LOEs) evaluated using the sediment quality triad (SQT) approach. The three LOEs are composed of the benthic invertebrate community in the LPRSA (Section 2), toxicity of LPRSA sediment to benthic invertebrates (Section 3), and sediment chemistry (Section 4). Results from these LOEs are compared using a weight of evidence (WOE) approach, described in the main text of the BERA (Section 6.1). Tables providing data and data summaries related to the LOE and WOE analyses are provided in Appendix B.

The following sections present, by LOE, the methods used to collect and analyze data, a summary of results, and a comparison of LPRSA results to relevant reference area data. The methods were initially developed by the Cooperating Parties Group (CPG) and then modified by US Environmental Protection Agency (USEPA) Region 2 (USEPA 2015a, b).

Quantitative analyses to assess uncertainty in several LOEs are described and presented in LOE-specific uncertainty sections herein. The quantitative analyses are used as a bound on uncertainty for the assessment of risks to benthic invertebrates. This approach is intended to address several significant uncertainties, which are detailed in this appendix and in Section 6.1 of the BERA main text.

2 Benthic Invertebrate Community Line of Evidence

The LPRSA benthic invertebrate community is one of three LOEs evaluated in the SQT approach. Benthic community survey data provide insight into the structure and function of benthic communities as a whole, which is why these data are integral to the SQT assessment. This section describes the methods used to directly assess the LPRSA benthic invertebrate community, the results, and comparison of LPRSA data with reference data.

The LPRSA benthic invertebrate community was described using several metrics calculated from the identified and enumerated taxa at each sediment location; the metrics describe different aspects of the benthic community structure (i.e., abundance [per m^2], richness, diversity, evenness, dominance, and tolerance of environmental stress). The assessment of benthic metrics was based on a comparison of metrics that describe the LPRSA with those calculated for reference locations.

2.1 METHODS

The benthic invertebrate community was surveyed at 97 locations in the LPRSA (Figure 4-5 in the BERA main text) that were co-located with sediment toxicity testing and chemistry analysis sampling locations.[1] Four replicate samples were collected at each location from a sediment depth of 15 cm (6 in.) using a grab sampler and were analyzed independently (rather than composited). Qualified taxonomists identified benthic invertebrates to the lowest practical taxonomic level in three of the replicate samples. The fourth replicate was archived for use in the event that a sample was damaged during shipment or that any other issues developed during data evaluation. Details of the benthic invertebrate community survey methods, quality assurance/quality control (QA/QC) procedures, and results are presented in the *Fall 2009 Benthic Invertebrate Community Survey and Benthic Field Data Collection for the Lower Passaic River Study Area* (Windward 2014).

As agreed upon by USEPA and CPG (Windward 2009), the provisional delineation between the estuarine and freshwater portions of the LPRSA for evaluating the benthic invertebrate community was set at river mile (RM) 8.5 based on the presence or absence of polychaetes in previous benthic invertebrate community surveys conducted by Aqua Survey (2005).[2] Samples from between RM 0 and RM 8.5 were

[1] Sediment was collected for chemical analysis and sediment toxicity testing at one additional location for a total of 98 chemistry and toxicity testing locations. The coarse substrate at this location made it difficult to collect the four replicate benthic invertebrate community samples.

[2] The salinity zones were modified as additional salinity data became available. Based on an in-depth review of the benthic community data from the LPRSA, it was determined that taxa that are more sensitive to changes in salinity are not present in areas of the river affected by daily and seasonal salinity changes. The revised zones used for the assessment of the benthic invertebrate community are outlined in the BERA main text (Section 2.2 and shown in Figure 2-7).

collected and processed using estuarine methods (i.e., collection of the top 15 cm of a 0.1-m^2 area and identification of all organisms retained after field-sieving the sediment through a 1-mm stainless steel screen). Samples from between RM 8.5 and RM 17.4 were collected and processed using freshwater methods (i.e., collection of the top 15 cm of a 0.05-m^2 area and identification of organisms retained after field-sieving the sediment through a 0.5-mm stainless steel screen). At three shallow locations near Dundee Dam (RM 17.4) where sediments were too coarse for the grab sampler (LPRT17B, LPRT17C, LPRT17E), 1-m kick nets were used to sample the benthic community.[3] Sample processing was conducted at a field facility before the preserved samples were shipped to the taxonomy laboratory.

As discussed in Section 2.1.1.1 of the BERA main text, the LPRSA, which is influenced by freshwater input and tides, has a transitional fluvial estuarine zone (between the upper estuarine and tidal freshwater zones) that fluctuates in salinity, both seasonally and daily. During low-flow conditions (such as those experienced during the fall 2009 benthic survey), this fluvial estuarine zone extends from approximately RM 4 to RM 13 and influences the structure of the benthic invertebrate community in the LPRSA. Accordingly, the following salinity zones were used to compare LPRSA benthic invertebrate community data to reference area data: upper estuarine (RM 0 to RM 4), fluvial estuarine (RM 4 to RM 13), and tidal freshwater (RM 13 to RM 17.4). These salinity zones are shown in Figure 2-2 of the BERA main text.

The benthic invertebrate community was quantitatively evaluated using a variety of standardized benthic metrics, which provided a way to condense the lists of taxa into relevant biological information. The metrics used included abundance per m^2, richness (i.e., the number of species [or higher order taxa, if not identified to species] in a sample), the Shannon-Wiener diversity index (Shannon 1948), Pielou's evenness index (Pielou 1966), and Swartz's dominance index (SDI) (Swartz et al. 1985). The Hilsenhoff Biotic Index (HBI) (Hilsenhoff 1987) was also included to describe the freshwater benthic invertebrate community's tolerance of stress. All metrics are presented as the mean of the three replicate samples evaluated at each sampling location.

Individual metrics are useful for describing facets of community structure, and the use of multiple metrics is common when comparing benthic communities (Alden et al. 2002). A summary of each metric used to describe the benthic invertebrate community observed in the LPRSA is provided in the subsections below. Metrics were calculated as the mean metric value based on communities surveyed in the three replicate samples collected at each sampling location.[4] USEPA has recommended that metrics also be calculated by first averaging the abundance of invertebrates across the three replicates, then calculating a single community metric for each sampling location. A

[3] The benthic community data collected using kick nets are discussed qualitatively in the BERA. Those data were not used to characterize risk because of the difficulty in comparing data collected using the different methodologies.

[4] Only two replicates were surveyed at LPRSA SQT location LPRT02E.

discussion of this alternative method for calculating benthic community metrics is presented in Section 2.3.4.

2.1.1 Abundance (per m^2)

Abundance describes the number of benthic invertebrate individuals observed in a sediment sample. Sampling and analytical methods can affect the determination of abundance values, so the total number of individuals collected at each sampling location was corrected to account for subsampling (if less than 100% of a sediment sample was used to determine abundance) and for the surface area sampled. The abundance data reported in this assessment was, therefore, an extrapolated estimate of abundance over the 1-m^2 area. For reporting purposes, it is advantageous to use abundance per m^2 (sometimes referred to as "density") because it is comparable among multiple sampling areas and/or surveys that used different sampling methodologies.

In the LPRSA, samples from between RM 0 and RM 8.5 were collected from a 0.1-m^2 area and processed using a 1-mm sieve, and samples from between RM 8.5 and RM 17.4 were collected from a 0.05-m^2 area and processed using a 0.5-mm sieve. Thus, corrected abundances were divided by the collection area (i.e., either 0.05 or 0.1 m^2) (to achieve a per m^2 unit), depending on the location and the method of collection.[5]

Abundance can increase or decrease in the presence of chemical contaminants (e.g., organic enrichment) or other perturbations (Pearson and Rosenberg 1978). At very high levels of physical and/or chemical disturbance, abundance tends to be reduced as compared with abundance in systems that are relatively unstressed (or have been restored) and that contain pollution-intolerant species. However, under moderately stressed environmental conditions, the benthic community may have a high abundance of tolerant species that can flourish in a moderately disturbed environment. This non-monotonic response of the abundance metric makes it unreliable for assessing responses due to perturbations. Measures of abundance are, therefore, less useful than measures of community structure (Nilsson and Rosenberg 2000; Rosenberg 2001).

2.1.2 Taxa richness

Taxa richness is the total number of taxa present in a sample identified to the lowest practical taxon, and represents a basic measure of biodiversity commonly used to

[5] Reference area samples from Jamaica Bay, Mullica River, and Great Bay were collected from a 0.04-m^2 area (and processed using a 0.5-mm sieve) (USEPA 2001a); accordingly, abundances were multiplied by a factor of 25 to obtain the area-normalized abundance per m^2. Reference samples collected in the Passaic River from the area above Dundee Dam were collected from a 0.05-m^2 area and were adjusted by a factor of 20, similar to freshwater samples from the LPRSA. Reference area samples are discussed in Section 6.1.3.

describe benthic communities.[6] Taxa richness data are presented in this assessment as the mean of the three replicate benthic community samples.

Similar to abundance, taxa richness is not always a straightforward metric for describing communities. Richness can increase relative to stable, mature communities during initial periods of low-intensity disturbance, because the disturbance of stable niches in mature communities allows for competition for a resource among a greater number of taxa (Sousa 1980; Molles 2005; Connell 1978). Given that the LPRSA is a tidal salt-wedge system that receives seasonal freshwater discharge pulses (e.g., during storm events) (Section 2.1 of the BERA main text), benthic communities are expected to be in a state of salinity-driven disturbance. For this reason, taxa richness within the LPRSA has been treated as monotonic throughout the analysis of benthic invertebrate communities; locations with the greatest taxa richness are expected to represent more stable and higher quality habitat (e.g., greater habitat complexity and/or resource availability) for benthic invertebrate taxa.

2.1.3 Diversity

Diversity describes the heterogeneity in a community with respect to the number of taxa (i.e., taxa richness) and the distribution of individuals among those taxa (Gray and Pearson 1982; Peet 1974). In practice, diversity metrics are used to describe the habitat quality of an ecosystem, assuming that a complex and suitable habitat that is relatively unimpacted by anthropogenic stressors allows for a greater diversity of taxa, including both species that are tolerant and intolerant of certain stressors (Heck and Wetstone 1977; Gorham and Alevizon 1989; Butler 1988; Quinn and Peterson 1996; Taniguchi and Tokeshi 2004).

The Shannon-Wiener diversity index (H′) (Shannon 1948) was used as the diversity metric for the LPRSA analysis. This is an index of the diversity of a community that incorporates taxa richness and the distribution of individual abundances among the taxa present (Peet 1974). The lowest possible H′ value is 0, which is calculated for a community with only a single species; H′ increases with increasing taxa richness and evenness.

[6] Under a conventional definition, taxa richness is not truly a measure of diversity because it does not incorporate both richness and evenness (i.e., proportionality of abundance between taxa) (Gray and Pearson 1982; Peet 1974), sometimes referred to as heterogeneity (Simpson 1949). Others have argued that richness is among the simplest measures of "true diversity," of which there are an infinite number of possible calculations (Rényi 1961; Jost 2006).

H′ is calculated as follows:

$$H' = -\sum p_i \ln(p_i)$$ **Equation 2-1**

Where:

H′ = the diversity index
ln = the natural logarithm
i = an index number for each taxon present in a sample
p_i = the number of individuals within a taxon (n_i) divided by the total number of individuals (N) present in the entire sample

The H′ metric is commonly applied to assess benthic communities. However, under certain circumstances, very different community structures can result in similar H′ values; for example, highly rich but dominated communities (discussed in Section 2.1.4) may be assigned H′ values similar to those of highly even communities with low richness. Furthermore, slight (e.g., statistically insignificant) discrepancies in H′ values may relate to substantially different communities as indicated by other measures of diversity (Jost 2006). For this reason, it is important to use H′ in conjunction with other metrics to interpret or compare results among sampling locations.

2.1.4 Dominance and evenness

Dominance and evenness are two related concepts used to describe benthic community structure. Dominance is the degree to which the abundance in a community is disproportionately distributed among all taxa, while evenness is the degree to which the total abundance in a community is evenly distributed among all taxa.

Two measures of dominance and evenness were used to compare LPRSA benthic communities with benthic communities from reference areas: SDI and Pielou's evenness index (J′).

2.1.4.1 Swartz's dominance index

Dominance is defined as the minimum number of taxa whose cumulative abundance equals (or exceeds) 75% of the total number of individuals in a sample (Swartz et al. 1985). To calculate the SDI, all taxa within a sample are first ranked and ordered according to their contribution to the total abundance. Then, the abundances of the most abundant taxa are summed cumulatively until that number equals 75% of the total abundance. The SDI is the minimum number of taxa required to obtain a cumulative abundance greater than or equal to 75% of the total abundance.

2.1.4.2 Pielou's evenness index

Pielou's evenness index (Pielou 1966) (often referred to as Pielou's J′) is a measure of the proportionality of the distribution of the total abundance across all taxa present in

a sample; it is frequently used as a measure of evenness in community structure analysis (Peet 1975). Pielou's J′ is the ratio of the Shannon-Wiener H′ to the maximum possible H′ (i.e., the value of H′ if the total abundance were perfectly distributed among all taxa); mathematically, the maximum H′ equals the logarithm of taxa richness. Pielou's evenness index ranges from 0.0 to 1.0, with greater values indicating a more even distribution of organisms among the taxa present in the sample.

Pielou's J′ is calculated as follows:

$$J' = \frac{H'}{H_{max}} = \frac{H'}{\ln(S)}$$

Equation 1-2

Where:

J′ = the evenness index

H′ = Shannon-Wiener diversity index

H_{max} = the theoretical maximum value for H′ if all species in the sample were equitably distributed (i.e., natural logarithm [ln] of S, where S is the richness of taxa in a sample)

2.1.5 Hilsenhoff Biotic Index

The HBI provides an indication of a freshwater benthic community's tolerance of the enrichment of organic materials and nutrients, as well as pollutants and other stressors (e.g., impoundments) (Hilsenhoff 1987, 1998). The index ranges from 1 to 10, with greater values indicating a greater abundance of stress-tolerant taxa. The index is an average of the tolerance values assigned to each taxa (i.e., 1 for the least stress-intolerant taxa and 10 for the most stress-tolerant taxa) present in a sample, weighted to the abundance of each taxa; only those species with assigned tolerance values are used in the calculation of the index.

Many tolerance values for species common to the Northeast are not reported by Hilsenhoff (1987) but are reported by Bode et al. (2002), who provide values that are specific to species observed in New York State (e.g., non-arthropod invertebrates such as oligochaetes). Arthropod values were taken from the list reported by Hilsenhoff (1987), which was developed for the Midwest. When available, New York tolerance values were used to calculate the HBI for communities in the LPRSA.

The HBI applies to freshwater communities only, and was used to compare LPRSA tidal freshwater benthic community data with benthic community data from freshwater reference locations. The HBI was not calculated for upper or fluvial estuarine benthic communities.

2.2 RESULTS

2.2.1 Grab samples

This section presents the results of the benthic invertebrate community survey conducted in the LPRSA in 2009 (excluding kick net samples). Tables 2-1 through 2-3 provide summaries of the metrics calculated for the three salinity zones (i.e., upper estuarine [RM 0 to RM 4], fluvial estuarine [RM 4 to RM 13], and tidal freshwater [RM 13 to RM 17.4]). Appendix K contains the data presented by location; the complete set of taxa data is presented in the *Fall 2009 Benthic Invertebrate Community Survey and Benthic Field Data Collection Report for the Lower Passaic River Study Area* (Windward 2014).

Table 2-1. Summary of LPRSA benthic community metrics in the benthic upper estuarine salinity zone (RM 0 to RM 4)

Statistic	Abundance (per m^2)	Taxa Richness (No. of Taxa)	Shannon-Weiner H′	Pielou's J′	SDI (No. of Taxa)
Sample size	25	25	25	25	25
Minimum	127	2.7	0.43	0.30	1.0
Maximum	3,420	16	2.1	0.89	5.3
Mean	1,030	8.0	1.4	0.69	2.9
Standard deviation	859	3.1	0.41	0.16	1.0
5th percentile	172	4.7	0.57	0.41	1.5
10th percentile	272	4.7	0.91	0.46	2.0
25th percentile	523	6	1.1	0.61	2.3
Median	721	7.7	1.4	0.71	3.0
75th percentile	1,220	9.3	1.6	0.80	3.5
90th percentile	2,464	12	1.7	0.85	4.0
95th percentile	2,748	13	2.0	0.88	4.5

Source: Windward (2014)

LPRSA – Lower Passaic River Study Area
RM – river mile
SDI – Swartz's dominance index

Table 2-2. Summary of LPRSA benthic community metrics in the benthic fluvial estuarine salinity zone (RM 4 to RM 13)

Statistic	Abundance (per m^2)	Taxa Richness (No. of Taxa)	Shannon-Weiner H′	Pielou's J′	SDI (No. of Taxa)
Sample size	54	54	54	54	54
Minimum	147	2.3	0.15	0.10	1.0
Maximum	37,900	16	1.7	0.85	3.3
Mean	6,818	9.0	1.1	0.53	2.0
Standard deviation	8,055	3.6	0.32	0.17	0.59

Statistic	Abundance (per m^2)	Taxa Richness (No. of Taxa)	Shannon-Weiner H′	Pielou's J′	SDI (No. of Taxa)
5th percentile	244	3.6	0.51	0.29	1.0
10th percentile	577	4.3	0.71	0.34	1.1
25th percentile	1,793	6.7	0.88	0.46	1.7
Median	4,445	9.0	1.1	0.53	2.0
75th percentile	7,165	11	1.3	0.61	2.3
90th percentile	20,720	14	1.5	0.71	2.7
95th percentile	23,585	15	1.5	0.73	3.0

Source: Windward (2014)

LPRSA – Lower Passaic River Study Area
RM – river mile
SDI – Swartz's dominance index

Table 2-3. Summary of LPRSA benthic community metrics in the benthic tidal freshwater zone (RM 13 to RM 17.4)

Statistic	Abundance (per m^2)	Taxa Richness (No. of Taxa)	Shannon-Weiner H′	Pielou's J′	SDI (No. of Taxa)	HBI
Sample size	18	18	18	18	18	18
Minimum	1,990	8.0	1.3	0.51	2.0	8.3
Maximum	30,600	23	2.0	0.73	5.3	9.7
Mean	10,601	16	1.6	0.61	3.3	9.2
Standard deviation	8,441	3.6	0.19	0.06	0.92	0.36
5th percentile	2,050	11	1.4	0.51	2.3	8.5
10th percentile	2,557	12	1.4	0.53	2.3	8.7
25th percentile	4,265	14	1.5	0.58	2.7	9.0
Median	8,565	16	1.6	0.60	3.2	9.2
75th percentile	12,475	18	1.7	0.64	3.7	9.4
90th percentile	23,540	20	1.9	0.69	4.5	9.5
95th percentile	28,050	21	2.0	0.71	5.0	9.7

Source: Windward (2014)

[a] HBI was determined using NYSDEC tolerance values, with the exception of values for arthropods, which were taken from Hilsenhoff (1987).

HBI – Hilsenhoff Biotic Index
LPRSA – Lower Passaic River Study Area
NYSDEC – New York State Department of Environmental Conservation
RM – river mile
SDI – Swartz's dominance index

2.2.2 Kick net samples

The purpose of this section is to provide a brief evaluation of the benthic invertebrate community samples collected in 2009 using kick nets. Kick nets were used at only three LPRSA locations, where grab sampling was not possible due to the coarseness of

sediment but where the depth was shallow enough to allow for the deployment of kick nets. Benthic invertebrate community data from kick net samples were not used to characterize risk to benthic invertebrates because such samples are methodologically different from the samples collected throughout the rest of the LPRSA and in reference areas. Kick nets and grab samplers collect different types of organisms, resulting in different community compositions. In addition, the other two LOEs for the SQT assessment (i.e., toxicity of LPRSA sediment to benthic invertebrates and sediment chemistry) were not evaluated at these three locations.

Compared to samples from other tidal freshwater LPRSA locations, kick net samples had lower abundances (between 91.3 and 1,870 abundance per m^2) but higher diversity (H′ between 2.1 and 2.5), evenness (J′ between 0.7 and 0.8), and richness (between 20.0 and 27.3), as well as lower HBI (between 5.5 and 6.5) and higher SDI (between 4.7 and 7.0) (Appendix K). Kick nets targeted a different composition of invertebrate species than grab samples. For example, more trichopterans (by abundance) were collected in the three kick net samples than in all other tidal freshwater grab samples combined (Windward 2014).[7]

2.3 COMPARISON TO REFERENCE AREA DATA

Benthic invertebrate community data were evaluated by comparing LPRSA benthic community metrics with those calculated from the reference area datasets described in Section 4.2 of the BERA main text. Reference area data are intended to provide a representation of conditions that would be expected in the LPRSA had the release of site-related hazardous substances not occurred. The use of reference data in this appendix is consistent with USEPA guidance on the use of reference data in ecological risk assessments (ERAs) (USEPA 2002, 2005a).

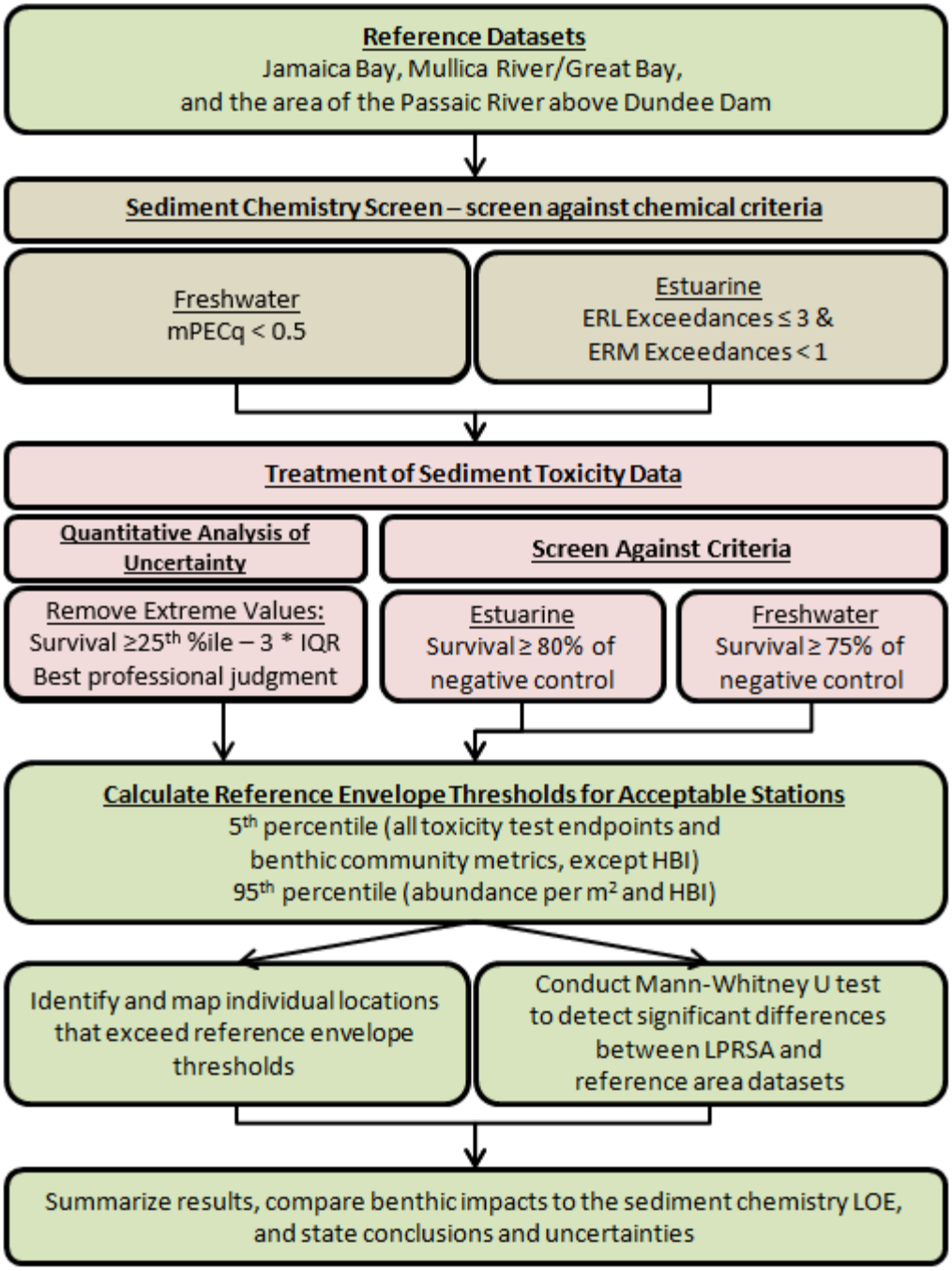
The steps outlined in Figure 2-1 were followed to establish reference datasets and then to compare the LPRSA data with the reference data. Two approaches are described in in Figure 2-1: the approach used in the WOE analysis, and an approach to quantitatively assess uncertainty associated with the approach. The quantitative analysis is presented in the uncertainty sections (Sections 2.3.4, 3.2.4, 4.1.4, and 4.3). Reference area samples were screened using sediment chemistry and toxicity test results. These steps are shown in Appendix B, Tables B3 (estuarine reference area data) and B4 (freshwater reference area data).

Once the reference datasets were fixed, the following analyses were conducted to compare the LPRSA and reference datasets:

[7] Although the higher abundance of trichopterans in kick net samples than in grab samples may have been due in large part to methodological differences between the two sampling methodologies, community compositions are also likely divergent in kick net samples because of significant habitat differences. Specifically, kick net samples were used in highly coarse, shallow areas, whereas other areas tended to have finer sediments capable of penetration by the grab sampler.

- Non-parametric Mann-Whitney U test (one-tailed,[8] alpha [α] = 0.05) to identify significant differences between the LPRSA and reference datasets. A two-tailed version of the test was used to evaluate significant differences between LPRSA and reference abundance data, which can either increase or decrease in response to stress (e.g., decrease in sensitive taxa and/or increase in tolerant, opportunistic taxa). The results of this analysis are presented in Appendix B, Table B6.
- Determine which, if any, locations in the LPRSA exhibited results (either benthic community metrics or toxicity test data) beyond a statistical reference dataset "envelope" (thereby indicating a stressed community) (i.e., less than the 5th percentile reference value [except HBI] and greater than the 95th percentile of abundance or HBI). The calculation of reference envelope thresholds, and the comparison of LPRSA SQT data to those thresholds, are provided in Appendix B, Tables B3 and B4.

[8] One-tailed tests were used to discern significantly lower benthic metric or sediment toxicity test endpoint values in the LPRSA relative to reference area data with two exceptions. HBI, which increases with increasing stress tolerance, was tested using a one-tailed test to discern significantly higher LPRSA HBI values relative to reference area data. Abundance (per m^2) can be elevated in relatively clean habitats or in somewhat stressed habitast. A two-tailed test was used to discern whether LPRSA abundance (per m^2) data were significantly different (higher or lower) than reference area data.



Note: Locations that failed sediment chemistry and/or sediment toxicity screens were removed from the reference area datasets. For the quantitative analysis of uncertainty, locations with extreme toxicity test results were removed from the reference area datasets. These steps are described in more detail in the text. LPRSA locations were defined as freshwater or estuarine if their interstitial salinities (measured during sampling of sediment used to test toxicity) were < 5 ppt or ≥ 5 ppt, respectively.

Figure 2-1. Process for comparing LPRSA benthic datasets with reference datasets

2.3.1 Reference data

Data from four reference locations (i.e., Jamaica Bay, Mullica/Great Bay estuary, freshwater Mullica River, and the area in the Passaic River above Dundee Dam; see Section 4.2 of the BERA main text for a description of the reference areas and Appendix L for the reference data) were compiled to compare with the LPRSA benthic community data (Appendix B, Tables B3-1 and B4-1). Data from these reference locations were also compiled to evaluate LPRSA sediment toxicity data. The reference locations were recommended by USEPA and were agreed upon by CPG, as documented in the Revised RARC Plan (Windward and AECOM Draft). Each of the reference location datasets was used to independently evaluate the LPRSA data. Only those data that passed both the sediment chemistry and sediment toxicity screening criteria (Appendix B, Tables B3-2, B3-3, B4-2, and B4-3) were used to evaluate SQT LOEs. Screening criteria are described below.

Jamaica Bay and the area of the LPR above Dundee Dam represent areas that receive pollution from urban sources but that are not contaminated by the key contaminants associated with the LPRSA. Thus, sediment data from these areas provide a reasonable model for expected future sediment quality conditions in the LPRSA, assuming that sediment risk will be reduced to acceptable levels. Mullica River/Great Bay is a non-urban reference area that represents relatively uncontaminated conditions. Although less relevant to the LPRSA due to its heavily urbanization, the Mullica River/Great Bay reference area provides some understanding of what species could potentially be present in a northeast estuary in the absence of contamination (both associated with Site-specific releases and urban sources). All three reference areas were selected due to their relative proximity to the LPRSA. A comparison of the habitat conditions (i.e., TOC, sediment grain size, and salinity) associated with LPRSA and reference areas is provided in Appendix L (Attachment L2). Jamaica Bay and Mullica River/Great Bay area SQT data were generated using methods similar to those used by CPG to generate SQT data for the LPRSA and the area above Dundee Dam (USEPA REMAP 2009; Windward 2012, 2010, 2009).

Only sediment samples with full SQT data (i.e., sediment chemistry, sediment toxicity, and benthic invertebrate community data) were acceptable for comparisons to LPRSA data. Samples with only benthic invertebrate community data or only sediment chemistry and toxicity data were unacceptable. Moreover, comparable SQT data were required, such that sediment toxicity test results for the same test organism were available in both the LPRSA and reference area datasets. Based on this initial screening criteria, much of the Mullica River freshwater dataset, which only contains freshwater toxicity tests conducted with *Ampelisca abdita*, were removed from consideration.[9] The remainder of the Mullica River freshwater dataset included only benthic invertebrate community data and so was also removed. Thus, all non-urban reference comparisons

[9] Mullica River freshwater data are discussed in the uncertainty section (Section 2.3.4).

to LPRSA data were limited to upper and fluvial estuarine data (i.e., LPRSA locations downstream of RM 13).

Reference area SQT data were screened using sediment chemistry criteria. Sediment chemistry data for estuarine reference locations (Jamaica Bay and Mullica River/Great Bay) were compared to effect range-low (ERL) and effect range-median (ERM) values (Long and Morgan 1990), and sediment chemistry data for freshwater reference locations (i.e., the area above Dundee Dam) were compared to probable effects concentrations (PECs) (MacDonald et al. 2000) (Appendix B, Tables B3-2 and B4-2). Although benthic invertebrate community data were available for many samples from the freshwater portion of the Mullica River reference area, no chemical or toxicological data were available for those same samples; consequently, they were removed from the Mullica River/Great Bay dataset because they could not be screened for acceptability.

Acceptable estuarine reference locations had three or fewer exceedances of ERLs and no exceedances of ERMs across all chemicals for which those sediment guidelines were available. Acceptable freshwater reference locations had mean PEC quotients (mPECqs) (i.e., the average quotient of reference location chemical concentrations and respective PECs) less than 0.5. The method for calculating mPECqs was amended slightly from the method presented by MacDonald et al. (2000) (based on an example calculation provided to CPG by USEPA Region 2): PEC quotients were averaged first within chemical groups (i.e., metals, polycyclic aromatic hydrocarbons [PAHs], organochlorine pesticides, and polychlorinated biphenyls [PCBs]) and then averaged across groups. Averaging PEC quotients in this way had the effect of down-weighting the influence of metal and organochlorine pesticide PEC quotients (n = 8 and n = 6 PECqs, respectively) relative to those for PAHs and PCBs (each based on a single PECq) in the final PECq average.

In addition to meeting the chemical criteria described above, acceptable reference locations were required to meet sediment toxicity criteria. *A. abdita* survival results at estuarine reference locations were required to be ≥ 80% of the respective negative control response. For freshwater reference locations, both *Chironomus dilutus* and *Hyalella azteca* survival results were required to be ≥ 75% of respective negative control responses. These screening steps are shown in Appendix B, Tables B3-3 and B4-3.

Screening the reference data resulted in the removal of several locations from the datasets for Jamaica Bay (n = 59) and the area above Dundee Dam (n = 19) (Appendix B, Tables B3-3 and B4-3). No estuarine SQT locations from Mullica River/Great Bay were removed as a result of the various screening steps described in this section, but all Mullica River freshwater locations (n = 17) were removed as a result of the initial screening step (as described above). The final datasets used to evaluate LPRSA data are discussed in the following sections.

2.3.1.1 Estuarine reference data

LPRSA benthic community data from the upper and fluvial estuarine salinity zones were compared with acceptable data from both Jamaica Bay, which was considered representative of urban habitat conditions, and the Mullica River/Great Bay estuary, which was considered representative of rural habitat conditions. These data are from samples that were collected and analyzed by others (USEPA 2011). Reference area data were used to calculate benthic community metrics (see Appendix L for reference area data and Section 2.1 for methods).

The Jamaica Bay reference dataset consisted of 35 acceptable samples with co-located benthic community, sediment toxicity (*A. abdita* 10-day survival), and sediment chemistry data. Table 2-4 presents a statistical summary of the benthic community metrics from Jamaica Bay. The composition of major taxa from all Jamaica Bay samples, which is dominated by crustaceans and annelid worms, is provided in Figure 2-2.

Table 2-4. Summary of benthic community metrics in the Jamaica Bay estuary reference dataset

Statistic	Abundance (per m^2)	Taxa Richness (No. of Taxa)	Shannon-Weiner H′	Pielou's J′	SDI (No. of Taxa)
Sample size	35	35	35	35	35
Minimum	410	6.5	0.519	0.232	1.0
Maximum	146,750	48	2.76	0.856	8.0
Mean	20,815	24	1.65	0.594	3.8
Standard deviation	27,728	12	0.543	0.152	1.8
5th percentile	606	7.4	0.774	0.393	1.4
10th percentile	675	8.2	0.906	0.409	1.7
25th percentile	4,269	15	1.40	0.484	2.5
Median	14,050	24	1.66	0.608	4.0
75th percentile	23,850	30	1.99	0.721	4.8
90th percentile	41,960	42	2.33	0.805	6.0
95th percentile	62,809	45	2.43	0.852	7.0

Source: USEPA REMAP (2002b)
REMAP – Regional Environmental Monitoring and Assessment Program
SDI – Swartz's dominance index
USEPA – US Environmental Protection Agency

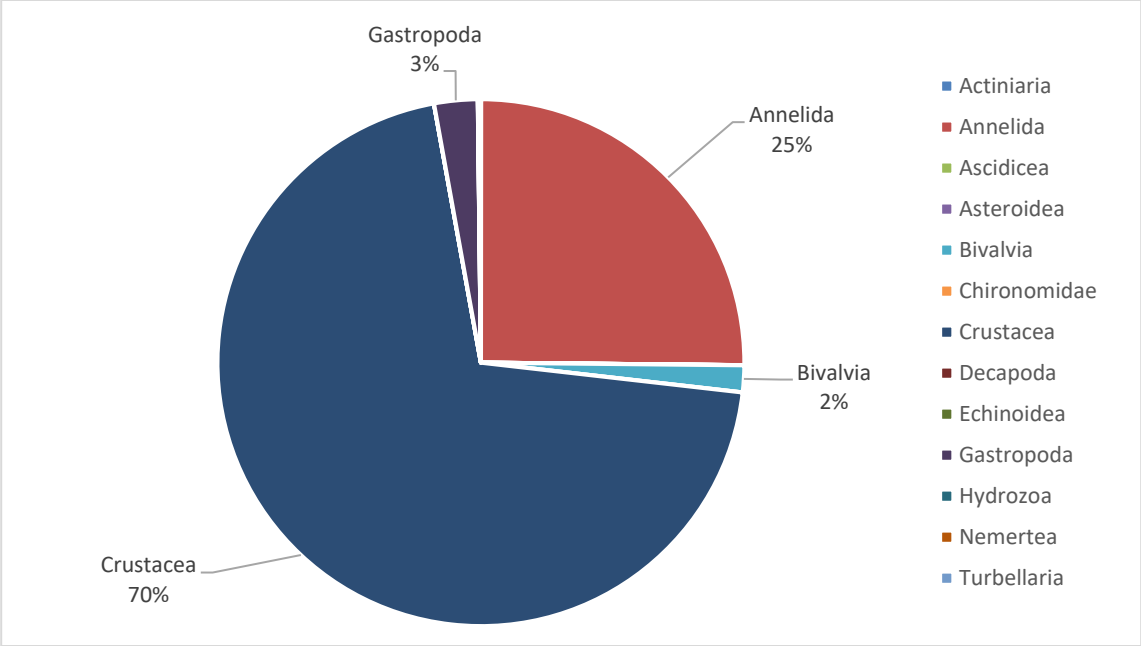


Figure 2-2. Distribution of benthic community relative abundance among major taxa in Jamaica Bay

The Mullica River/Great Bay reference dataset consisted of 12 acceptable samples with co-located benthic community, sediment toxicity, and sediment chemistry data. Table 2-5 presents a statistical summary of the benthic community metrics from Mullica River/Great Bay, and Figure 2-3 shows the community composition among all Mullica River/Great Bay samples based on average major taxa abundance. Like the Jamaica Bay community, the Mullica River/Great Bay community is composed primarily of crustaceans and annelid worms.

Table 2-5. Summary of benthic community metrics in the Mullica River/Great Bay estuary reference dataset

Statistic	Abundance (per m^2)	Taxa Richness (No. of Taxa)	Shannon-Weiner H′	Pielou's J′	SDI (No. of Taxa)
Sample size	12	12	12	12	12
Minimum	1,470	8	0.92	0.287	2.0
Maximum	51,375	42	3.01	0.884	11
Mean	13,404	25	1.95	0.631	5.1
Standard deviation	17,483	12	0.750	0.202	3.3
5th percentile	1,583	10	0.969	0.332	2.0
10th percentile	1,708	11	1.02	0.372	2.0
25th percentile	2,394	14	1.41	0.432	2.8
Median	5,913	26	1.85	0.705	3.5
75th percentile	12,981	35	2.65	0.777	7.5

Statistic	Abundance (per m^2)	Taxa Richness (No. of Taxa)	Shannon-Weiner H′	Pielou's J′	SDI (No. of Taxa)
90th percentile	43,698	39	2.91	0.810	9.9
95th percentile	48,474	40	2.96	0.844	11

SDI – Swartz's dominance index

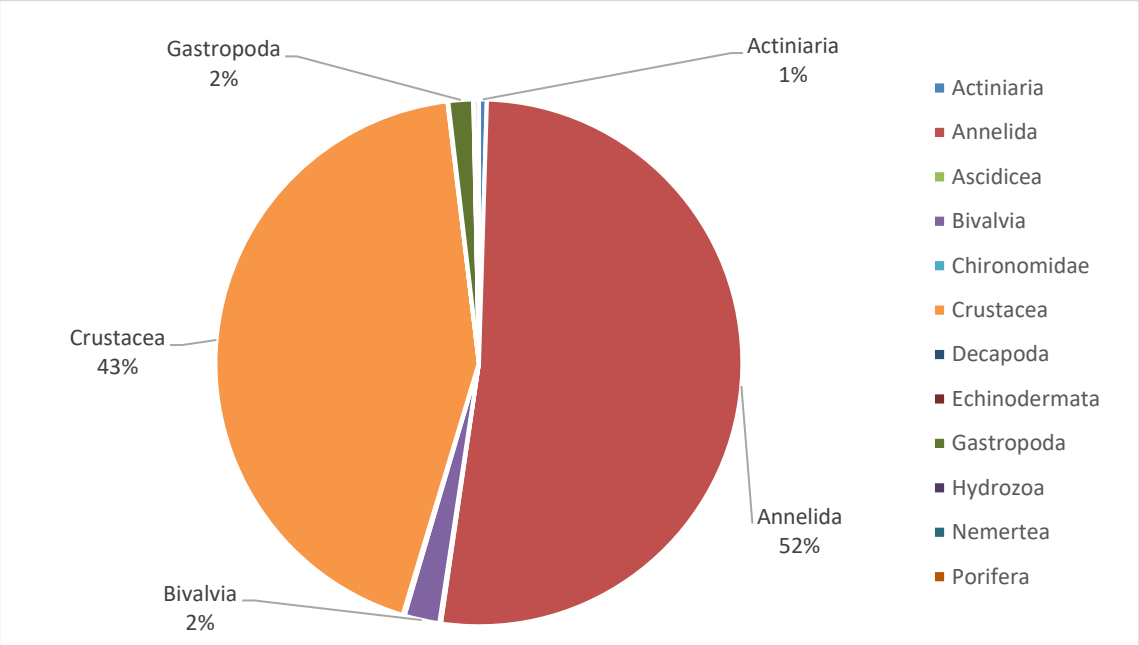


Figure 2-3. Distribution of benthic community relative abundance among major taxa in Mullica River/Great Bay

2.3.1.2 Freshwater reference data

Benthic community data from the LPRSA tidal freshwater zone (RM 13 to RM 17.4) were compared with reference data collected from the Passaic River above Dundee Dam, an area considered representative of sediment quality in the upper section of the LPRSA without the releases of hazardous substances associated with the LPRSA.

As discussed in Section 4.2 of the BERA main text, the reference dataset from the area above Dundee Dam was collected by CPG in fall 2012 and consisted of 24 SQT samples. Sample collection and analysis were conducted following the same methodologies as those used for the collection of samples from the LPRSA. This dataset was screened and reduced according to the approaches described above (and shown in Appenix B, Tables B4-2 and B4-3). After screening, the dataset contained only five samples with co-located sediment chemistry, sediment toxicity test, and benthic invertebrate community metric data. Due to its small size, there is substantial uncertainty associated with this dataset and, by extension, the characterization of reference conditions above Dundee Dam.

Table 2-6 summarizes the benthic community reference data (after screening) for the area above Dundee Dam, and Figures 2-4 and 2-5 show the community composition

among all samples based on average major taxa abundance. The community above Dundee Dam is composed primarily of chironomids and annelid worms.

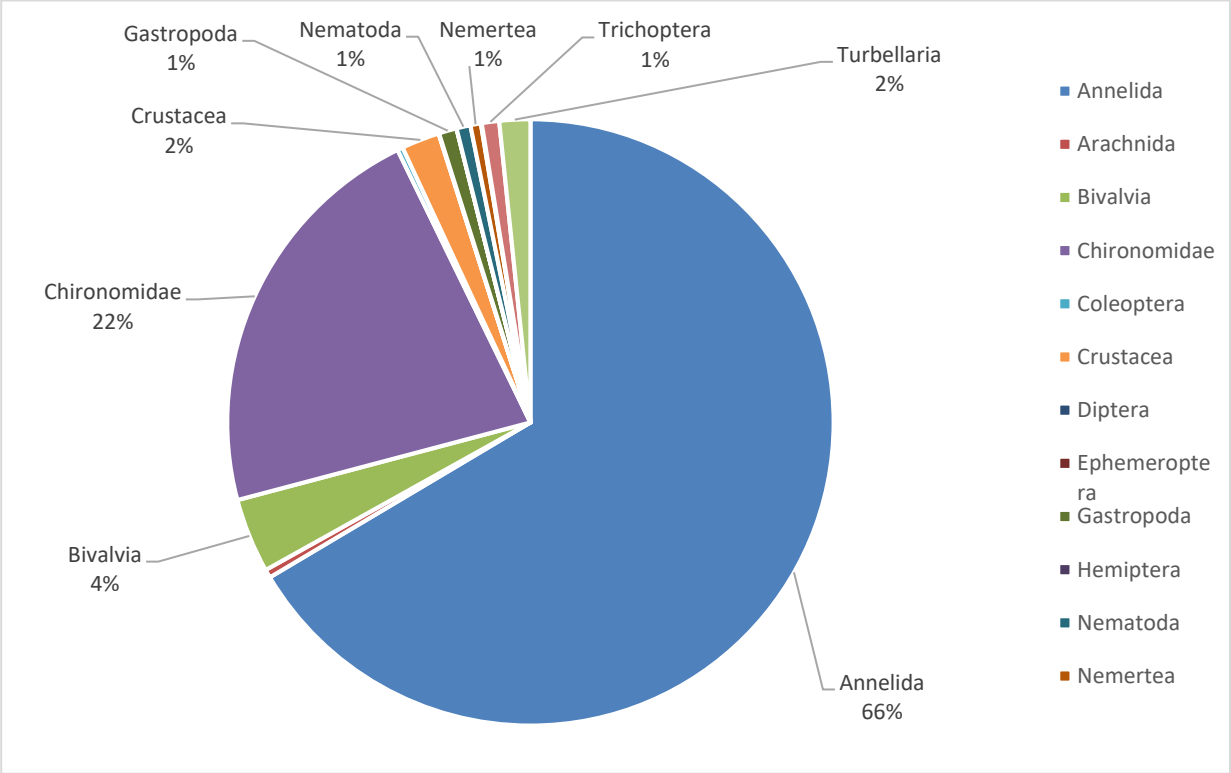


Figure 2-4. Distribution of benthic community relative abundance among major taxa above Dundee Dam

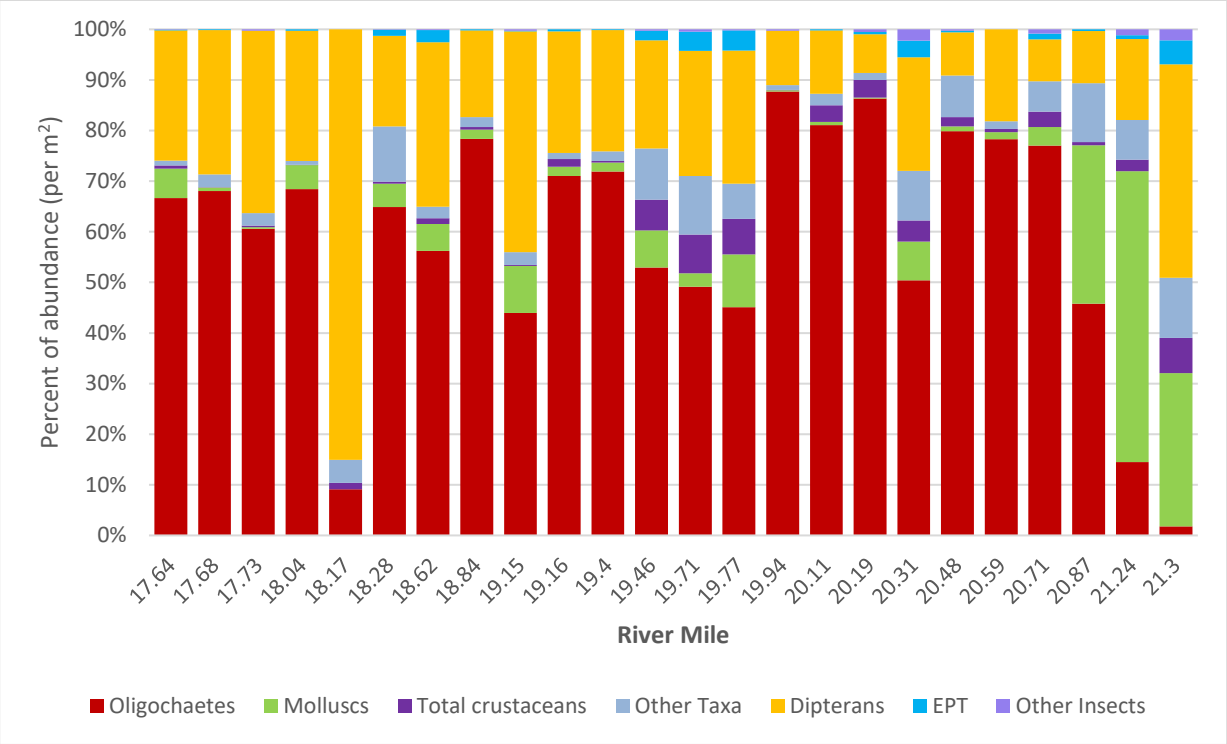


Figure 2-5.Relative abundance of major taxa above Dundee Dam

Table 2-6. Summary of benthic community metrics from the area above Dundee Dam

Statistic	Abundance (per m^2)	Taxa Richness (No. of Taxa)	Shannon-Weiner H′	Pielou's J′	SDI (No. of Taxa)	HBI[a]
Sample size	5	5	5	5	5	5
Minimum	11,200	19	1.94	0.617	4.33	8.28
Maximum	19,500	27	2.27	0.727	6.00	9.41
Mean	14,460	22	2.11	0.689	4.93	8.77
Standard deviation	3,453	3	0.133	0.0438	0.833	0.452
5th percentile	11,260	19	1.95	0.630	4.33	8.30
10th percentile	11,320	19	1.97	0.643	4.33	8.33
25th percentile	11,500	19	2.01	0.683	4.33	8.40
Median	14,000	21	2.13	0.697	4.33	8.82
75th percentile	16,100	23	2.19	0.720	5.67	8.94
90th percentile	18,140	25	2.24	0.724	5.87	9.22
95th percentile	18,820	26	2.25	0.726	5.93	9.32

Source: Windward (Draft)

[a] HBI was determined using NYSDEC tolerance values, with the exception of values for arthropods, which were taken from Hilsenhoff (1987).

HBI – Hilsenhoff Biotic Index
SDI – Swartz's dominance index
NYSDEC – New York State Department of Environmental Conservation
Windward – Windward Environmental LLC

2.3.2 Comparison with reference data

The LPRSA benthic community metrics data were compared with reference area data in two ways: by using Mann-Whitney U tests (Appendix B, Table B6) and by identifying LPRSA metric values that were less than the 5th percentile reference value (excepting HBI) or greater than the 95th percentile reference value for abundance and HBI (Appendix B, Tables B3 and B4). Mann-Whitney U tests are used to discern differences between whole datasets, whereas the latter approach discerns location-by-location differences from the majority of reference data. The 5th percentile (and 95th percentile for abundance and HBI) reference values are presented in Table 2-6. Table 2-7 summarizes the results of the Mann-Whitney U tests comparing the benthic invertebrate community data within the LPRSA benthic salinity zones with reference area datasets.

Table 2-7. Results of the statistical analysis comparing the corresponding LPRSA benthic invertebrate community data with reference data

Benthic Salinity Zone	Area of Interest	Is There a Significant Difference Between LPRSA Reference Area Data? (Mann-Whitney U test, alpha = 0.05)					
		Abundance (per m^2)[a]	Taxa Richness	Shannon-Weiner H'	Pielou's J'	SDI	HBI[b]
Upper estuary	Jamaica Bay (urban)	**yes; 8.74E-07**	**yes; 7.65E-08**	**yes; 2.07E-02**	no; 9.86E-01	**yes; 3.16E-02**	na[c]
Fluvial estuary	Jamaica Bay (urban)	**yes; 2.20E-03**	**yes; 2.45E-09**	**yes; 8.60E-07**	**yes; 2.69E-02**	**yes; 4.86E-07**	na[c]
Upper estuary	Mullica River and Great Bay (non-urban)	**yes; p = 1.28E-05**	**yes; p = 1.06E-05**	**yes; p = 2.30E-02**	no; p = 6.69E-01	no; p = 6.27E-02	na[c]
Fluvial estuary	Mullica River and Great Bay (non-urban)	no; p = 2.35E-01	**yes; p = 7.97E-06**	**yes; p = 1.40E-04**	**yes; p = 4.26E-02**	**yes; p = 7.95E-05**	na[c]
Tidal freshwater	Above Dundee Dam (urban)	no; p = 8.64E-02	**yes; p = 2.57E-03**	**yes; p = 9.85E-04**	**yes; p = 4.06E-03**	**yes; p = 1.98E-03**	no; p = 1.40E-01

Note: **Bold** text indicates significant result ($p < 0.05$); significance/p-values are based on lower-tailed Mann Whitney U tests, unless otherwise noted.

[a] Abundance tested using two-tailed Mann-Whitney U test.

[b] HBI tested using upper-tailed Mann-Whitney U test.

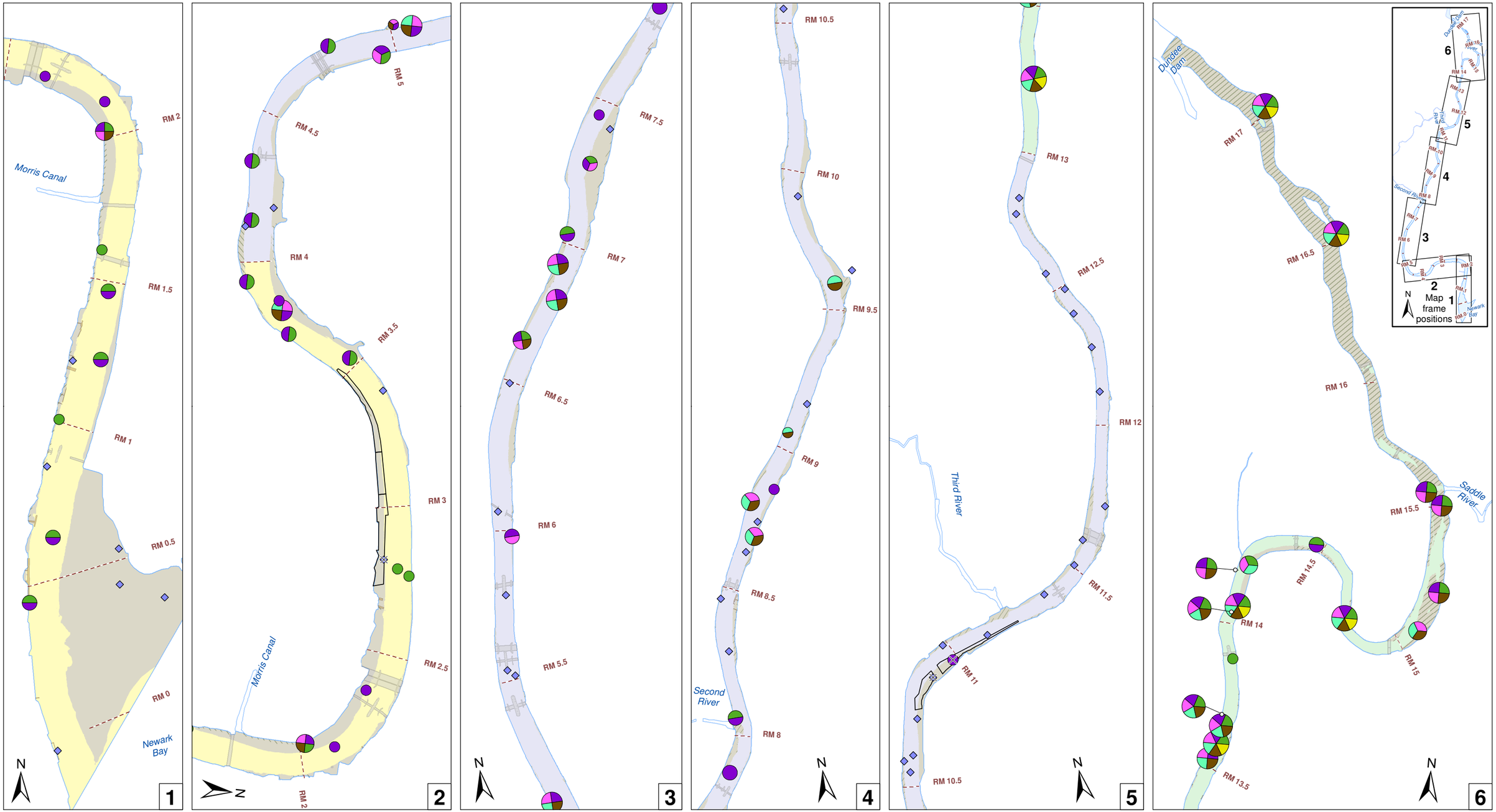
[c] HBI is specific to freshwater, so comparison to Jamaica Bay or Mullica River/Great Bay data was not appropriate

HBI – Hilsenhoff Biotic Index
LPRSA – Lower Passaic River Study Area
na – not applicable
SDI – Swartz's dominance index

As shown in Table 2-7, results from the Mann-Whitney U test demonstrate statistically significant differences in benthic community metrics between the LPRSA and reference areas. Taxa richness and diversity (H') were consistently lower in the LPRSA than in reference areas, and dominance (SDI) was similarly depressed in the fluvial

estuarine and tidal freshwater zones relative to reference conditions. Evenness (J') was significantly different between the tidal freshwater LPRSA and the area above Dundee Dam, as well as between the fluvial estuarine LPRSA and each estuarine reference area. Results were similar between the urban and non-urban comparisons in the estuarine zones of the LPRSA (Table 2-7). These results indicate that, in general, the benthic invertebrate community in the LPRSA is impaired relative to communities found in reference areas.

Figure 2-6 shows the results of comparisons (by sample location) of LPRSA benthic community metrics with reference envelope thresholds (Appendix B, Tables B3 and B4). The comparison shown in Figure 2-6 is based on Jamaica Bay data compared with data from locations in the upper estuarine and fluvial estuarine benthic salinity zones of the LPRSA, and data from above Dundee Dam compared with data from locations in the tidal freshwater zone of the LPRSA, respectively. The number and frequency of LPRSA locations with data different from the range of reference area values are summarized in Table 2-8. Figure 2-7 presents similar results based on the comparison of LPRSA data to non-urban Mullica River and Great Bay data.



Metric outside reference envelope[a]

- Abundance (per m²)
- Taxa Richness
- Shannon-Wiener H' (log e)
- Pielou's J'
- Swartz's Dominance
- Hilsenhoff Biotic Index

- All metrics within reference envelope
- Remediated location[b]
- Bridge
- Abutment
- Dock
- Dredge zone

- River mile
- Mudflat
- Gravel with fines
- Upper Estuarine
- Fluvial Estuarine
- Tidal Freshwater

0 0.25 0.5 Miles

0 0.25 0.5 0.75 Kilometers

Mudflat areas for ecological receptors are those areas where the river bottom slope is ≤ 6° and the depth is ≥ -2 ft MLLW, based on the 2007 CPG bathymetric survey.

[a]Hilsenhoff Biotic Index value above the 95th percentile of the reference data; Abundance value above the 95th percentile or below the 5th percentile; all other metrics below the 5th percentile. Note: Locations downstream of RM 13 were compared to urban reference data from Jamaica Bay; locations upstream of RM 13 were compared to urban reference data from the area of the Passaic River above Dundee Dam.

[b]One sample was collected in the Lister Ave. dredge area at RM 2.8 and two were collected in the RM 10.9 dredge area.

Figure 2-6. Benthic community metrics in the LPRSA compared with reference data representing urban habitats

Appendix P. Lower Passaic River Study Area Baseline Ecological Risk Assessment

FINAL

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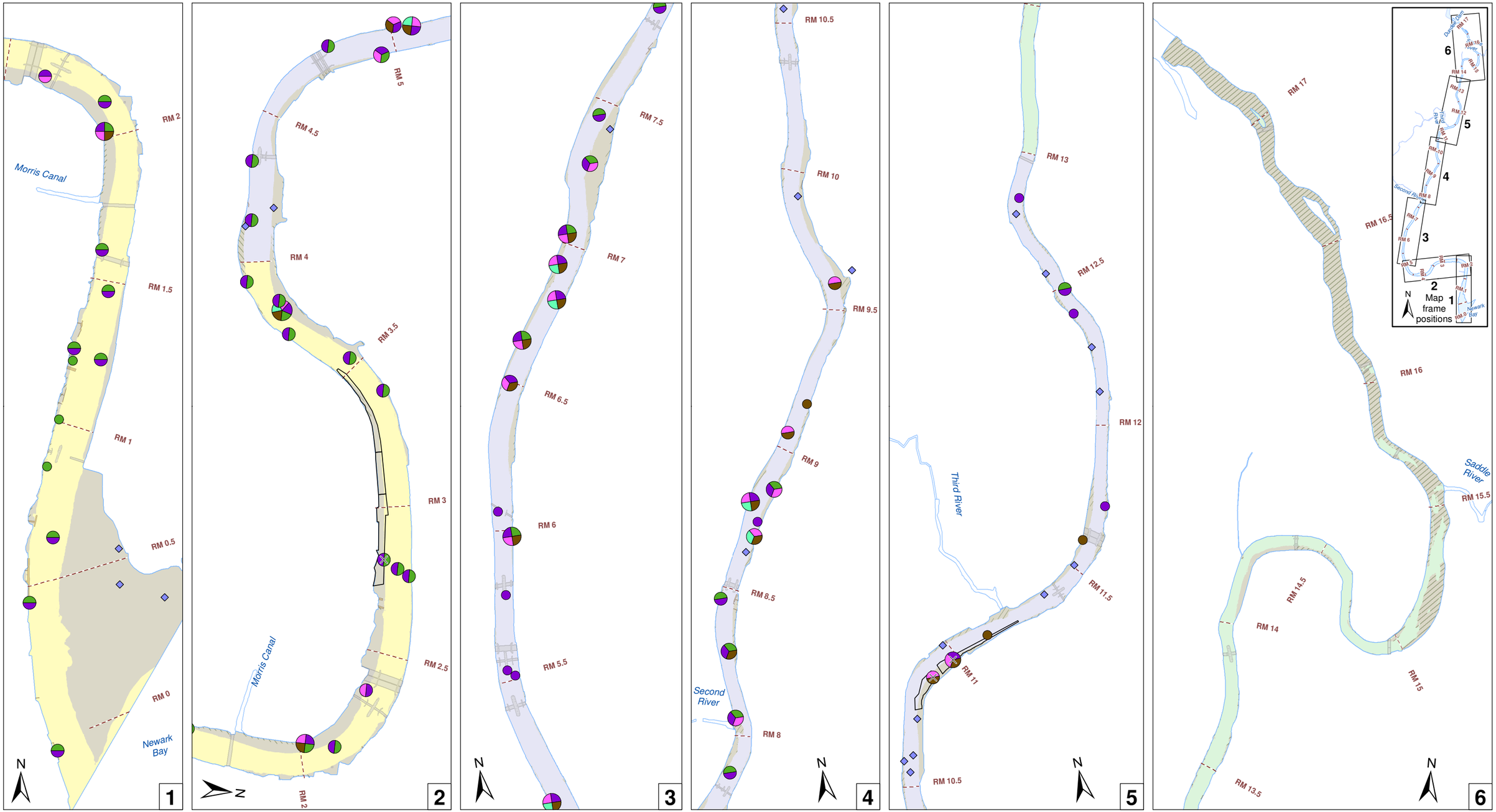
Prepared by mikey 4/23/2019 ; W:\Projects\06-58-01 Passaic RI\Data\GIS\Maps_and_Analysis\BERA\Revised BERA 2016\6369_Benthic metrics_Urban_LSM_20160721.mxd



Metric outside reference envelope[a]

- Abundance (per m²)
- Taxa Richness
- Shannon-Weiner H' (log e)
- Pielou's J
- Swartz's Dominance

- All metrics within reference envelope
- Remediated location[b]
- Bridge
- Abutment
- Dock
- Dredge zone

- River mile
- Mudflat
- Gravel with fines
- Estuarine LPRSA
- Transitional LPRSA
- Freshwater LPRSA

[a]Abundance value above the 95th percentile or below the 5th percentile; all other metrics below the 5th percentile of the reference data. Note: Locations were compared to non-urban reference data from Mullica River and Great Bay.

0 0.25 0.5 Miles

0 0.25 0.5 0.75 Kilometers

Mudflat areas for ecological receptors are those areas where the river bottom slope is ≤ 6° and the depth is ≥ -2 ft MLLW, based on the 2007 CPG bathymetric survey.

[b]One sample was collected in the Lister Ave. dredge area at RM 2.8 and two were collected in the RM 10.9 dredge area.

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Figure 2-7. Benthic community metrics in the LPRSA compared with reference data representing non-urban habitats

Appendix P. Lower Passaic River Study Area Baseline Ecological Risk Assessment

FINAL

Prepared by mikey 5/30/2019; W:\Projects\06-58-01 Passaic RI\Data\GIS\Maps_and_Analysis\BERA\Revised BERA 2016\6441_Benthic metrics_nonUrban_LSM_20160721.mxd

Table 2-8. Summary of comparison of benthic metrics with reference envelope

Benthic Salinity Zone	Statistic	Abundance (per m^2)	Taxa Richness (No. of Taxa)	Shannon-Weiner H′	Pielou's J′	SDI (No. of Taxa)	HBI[a]
Comparison with Jamaica Bay (urban)							
Upper estuary (RM 0 to RM 4)	sample size	25	25	25	25	25	na[b]
	no. of locations outside reference envelope	12	12	2	1	2	na[b]
	percent of locations outside reference envelope	48%	48%	8%	4%	8%	na[b]
Fluvial estuary (RM 4 to RM 13)[c]	sample size	54	54	54	54	54	na[b]
	no. of locations outside reference envelope	8	19	10	7	9	na[b]
	percent of locations outside reference envelope	15%	35%	19%	13%	17%	na[b]
Comparison with Mullica River and Great Bay (non-urban)							
Upper estuary (RM 0 to RM 4)	sample size	25	25	25	25	25	na[b]
	no. of locations outside reference envelope	21	19	3	1	2	na[b]
	percent of locations outside reference envelope	84%	76%	12%	4%	8%	na[b]
Fluvial estuary (RM 4 to RM 13)[c]	sample size	54	54	54	54	54	na[b]
	no. of locations outside reference envelope	15	30	18	5	18	na[b]
	percent of locations outside reference envelope	28%	56%	33%	9%	33%	na[b]
Comparison with the area above Dundee Dam (urban)							
Tidal freshwater (RM 13 to RM 17.4)	sample size	18	18	18	18	18	18
	no. of locations outside reference envelope	16	15	16	12	15	6
	percent of locations outside reference envelope	89%	83%	89%	67%	83%	33%

[a] HBI was determined using NYSDEC tolerance values. HBI was the only metric compared to the maximum; all others were compared to the minimum.

[b] HBI applies to only tidal freshwater locations.

[c] Methods of sample collection differed between these two datasets (e.g., sieve sizes used were 1 mm or 0.5 mm); within the fluvial estuarine zone of the LPRSA, only samples upstream of RM 8.5 differed in this way.

HBI – Hilsenhoff Biotic Index
LPRSA – Lower Passaic River Study Area
na – not applicable
NYSDEC – New York State Department of Environmental Conservation
RM – river mile
SDI – Swartz's dominance index

2.3.3 Summary of results

Using the reference envelope threshold values to establish differences between LPRSA benthic metrics values and reference conditions, several sampling locations

were outside the reference envelope (Table 2-8). For example, 48% of the 25 locations in the upper estuarine zone of the LPRSA were outside the urban reference envelope for both richness and abundance per m^2. By comparison, evenness, diversity, and dominance were more often similar to urban reference conditions at these locations (i.e., in ≤ 8% of 25 samples). The results of multiple Mann-Whitney U tests indicate that metrics in the upper estuarine zone are generally different than metrics in Jamaica Bay (the only exception being evenness).

In the fluvial estuarine salinity zone, richness was again the most sensitive metric, followed by abundance and diversity (Table 2-8). Evenness and dominance reference condition thresholds were exceeded by a smaller margin in the fluvial estuarine zone than in the upper estuarine zone. However, based on Mann-Whitney U tests, metrics tended to be less in the LPRSA upper fluvial estuarine zone than in the urban reference area (Table 2-7).

Benthic community metrics from the tidal freshwater zone of the LPRSA were generally dissimilar to metrics in the area above Dundee Dam (Tables 2-7 and 2-8). For example, abundance, richness, diversity, and dominance all exceeded the reference envelope at more than 80% of tidal freshwater locations, and all metrics except abudance were generally lower than reference conditions based on Mann-Whitney U tests. Only HBI was generally similar (on a sample-by-sample basis), with only 33% (n = 6) of tidal freshwater SQT locations falling outside the urban freshwater reference envelope.

2.3.4 Uncertainties in comparison to reference area data

This section identifies the uncertainties inherent in the benthic invertebrate community LOE analyses provided above. Uncertainties are as follows:

- It is unclear whether the screened reference area datasets accurately reflect the reference condition. Specifically, screening reference area data using sediment chemistry or sediment toxicity criteria imposes a potentially unreasonable constraint on data acceptability. The resulting datasets may not capture the full range of possible benthic community metric results that should be expected under urbanized conditions (but for the LPRSA-specific release of hazardous materials). This is particularly true of the dataset from above Dundee Dam, which, after screening, contained only five acceptable SQT samples.
- It is unknown whether temporal factors influence the interpretation of reference area datasets. These factors could include annual or seasonal changes in invertebrate communities or community responses to significant events such as storms, discharge events, droughts, or seasonal disturbances. Within reference area datasets, temporal changes could result in invertebrate data variability.
- It is unclear whether comparing LPRSA data to data from a non-urban reference area (Mullica River and Great Bay) is relevant for characterizing risks

in the LPRSA. Comparison to non-urban conditions fails to incorporate potential stressors that are generally observed in urban settings and are expected to influence the LPRSA benthic invertebrate community. Examples of these stressors include altered hydrology due to channelization and flood controls and increased organic and inorganic inputs from CSOs, SWOs, road waste, and permitted industrial discharges.

- Abundance (per m^2) and taxa richness (as well as the metrics that are based on these measurements) are influenced by sample volume and size; the variability in sampling methods upstream and downstream of RM 8.5 (as well as those in reference areas) may have influenced these measurements and subsequent analyses. The difference in sieve sizes used to collect benthic invertebrate community samples downstream of RM 8.5 (1 mm), upstream of RM 8.5 (0.5 mm) (including the area above Dundee Dam), and in Jamaica Bay (0.5 mm) could have influenced sample abundance and taxa richness (Gage et al. 2002). Therefore, comparisons made between data from the tidal freshwater LPRSA and data from a portion of the fluvial estuarine zone of the LPRSA between RM 8.5 and RM 13 (which were compared to Jamaica Bay) may be influenced by differences in mesh size. This uncertainty does not apply to comparisons made between data from locations above Dundee Dam and within the tidal freshwater zone of the LPRSA.
- Both abundance and taxa richness may increase with increasing environmental stress under certain circumstances (Pearson and Rosenberg 1978). Based on the frequency and intensity of disturbance in the LPRSA, late mature communities are not likely to exist in the LPRSA, so disturbance is unlikely to result in increased taxa richness (consistent with the Pearson-Rosenberg model). Abundance may increase in disturbed habitats of the LPRSA, driven by relatively few disturbance-tolerant taxa. The evaluation of risk relative to reference conditions from urban habitats based on abundance (per m^2) was somewhat uncertain for that reason. However, the use of both 5th and 95th percentiles as reference thresholds, as well as the use of a two-tailed Mann-Whitney U test for that variable (Table 2-7), is intended to account for this uncertainty.
- Although the area downstream of RM 4 was assumed to have a spatially consistent daily estuarine salinity (i.e., ≥ 5 parts per thousand [ppt]), this area is still prone to seasonal shifts in salinity (i.e., estuarine to complete freshwater [< 0.5 ppt]) (Moffatt & Nichol 2013). Therefore, disturbances observed in this area during seasonal low flows (such as the flows preceding the 2009 SQT sampling event) (USGS 2012) may be related to the seasonal influx of estuarine waters into what was previously freshwater habitat. In other words, substantial shifts in the benthic invertebrate community from predominately freshwater species to estuarine species may occur from RM 0 to RM 4 over the course of a

year (Windward 2014), and this seasonal shift may be responsible, in part, for the disturbed communities observed in the upper estuarine zone of the LPRSA. Intermittent physical disturbance is also a possibility; significant deposition and erosion in the upper estuarine zone were observed during a sediment profile imaging survey in June 2005 (Germano & Associates 2005).

- It is possible that significant differences between freshwater LPRSA benthic community metrics and metrics above Dundee Dam are related to differences in sediment grain size between the tidal freshwater LPRSA (very coarse in some places) and the area above Dundee Dam (finer). Alternatively, differences may be related to the influence of Dundee Dam (i.e., unnatural hydrology).
- Though the Mullica River freshwater dataset was insufficient to characterize a non-urban freshwater reference condition, the ranges of community metric data from the three acceptable Mullica River freshwater samples are presented in Table 2-9, and the composition of major taxa (based on average abundance across all samples) is shown in Figure 2-8.[10] Ranges of Mullica River freshwater metric data generally overlap with ranges from above Dundee Dam (and the LPRSA). Slightly lower minimum and maximum values in the Mullica River freshwater dataset suggest that the comparison of LPRSA data to data from the area above Dundee Dam is conservative. HBI is an exception, in that the much lower range in Mullica River freshwater data indicates a far less tolerant community at that non-urban site. This is corroborated by Figure 2-8, in that sensitive taxa (e.g., Crustacea, Ephemeroptera, and Trichoptera) compose a larger portion of the freshwater Mullica River than the urban reference area.
- Benthic community metrics can be calculated in more than one way, depending on how replicate community samples and metrics are averaged. For the analysis herein, benthic community metrics were calculated for each sample replicate, and the replicate metric values were averaged to obtain a single metric value (and variance) for a sampling location. Alternatively, replicate benthic community data can be averaged together first, followed by the calculation of a single benthic community metric value (without variance) for the entire location. This alternative approach can result in very different metric estimates, generally trending toward greater abundance, richness, diversity, and evenness, and lower dominance and pollution tolerance (Table 2-10). For the LPRSA data, this trend is most pronounced for richness, diversity, and tolerance and least pronounced for abundance, evenness, and dominance. This difference indicates that the analysis of LPRSA data relative to reference area datasets is biased toward predicting greater impacts (i.e., conservative).

[10] One of four Mullica River freshwater locations (NJ06-0046-A) was screened out due to low sediment toxicity; *A. abdita* survival was 41.8% of negative control, which is below the screening criterion of 75% of control.

Table 2-9. Ranges of benthic community metrics from the LPRSA, above Dundee Dam, and the freshwater Mullica River

Area of Interest	Abundance (per m²)	Taxa Richness	Shannon-Wiener H′	Pielou's J′	SDI	HBI
Freshwater LPRSA (RM 14 to RM 17.4)	1,990–30,600	8.0–23	1.32–2.0	0.507–0.730	2.0–5.3	8.33–9.73
Above Dundee Dam[a]	11,200–19,500	19–27	1.94–2.27	0.617–0.727	4.3–6.0	8.28–9.41
Mullica River freshwater[b]	3,900–5,825	14–19	1.53–2.05	0.581–0.713	3.0–5.0	6.79–8.77

[a] Ranges based on screened reference dataset (Table 2-6).

[b] One of four Mullica River freshwater locations (NJ06-0046-A) was screened out due to low sediment toxicity; *A. abdita* survival at that location was 41.8% of negative control, which was below the screening criterion of 75% of control.

HBI – Hilsenhoff Biotic Index
LPRSA – Lower Passaic River study Area
RM – river mile
SDI – Swartz's dominance index

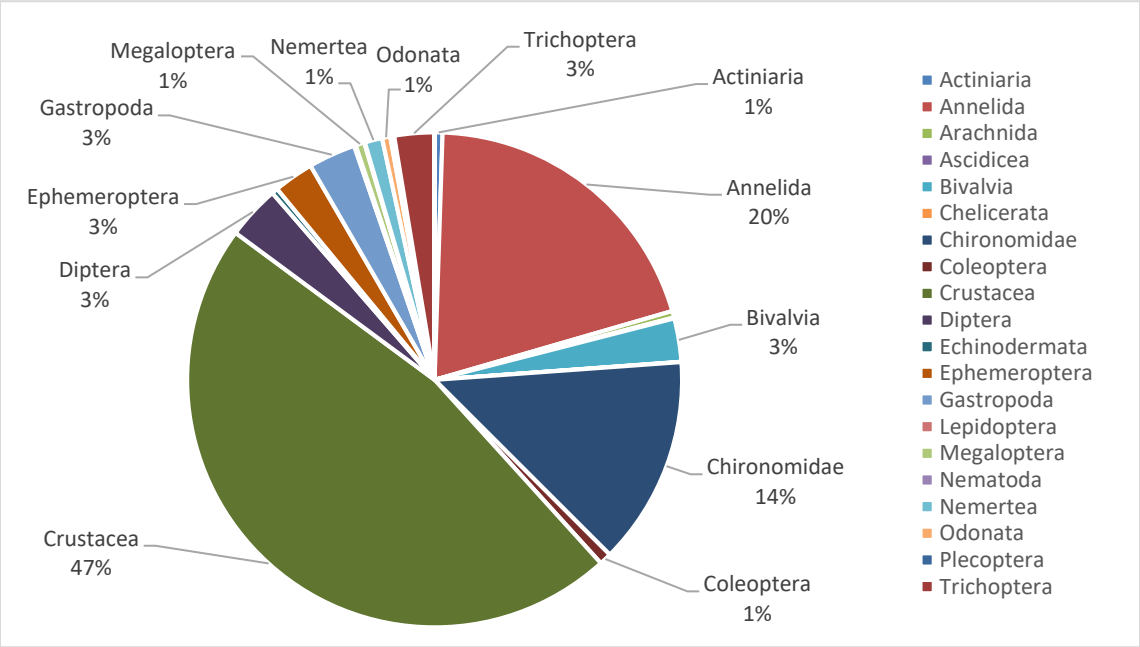


Figure 2-8.Relative abundance of major taxa in the freshwater Mullica River

Table 2-10. Comparison of benthic community metrics calculated using two different averaging methods

Location ID	Abundance (per m²)		Richness		Shannon-Wiener H'		Pielou's J'		SDI		HBI[a]	
	BERA Value	Alt. Value	BERA Value	Alt. Value	BERA Value	Alt. Value	BERA Value	Alt. Value	BERA Value	Alt. Value	BERA Value	Alt. Value
LPRT01A	1,090	1,467	8	14	1.06	1.72	0.507	0.651	2.0	3	--	--
LPRT01B	614	288	8	10	1.34	1.92	0.662	0.834	2.7	5	--	--
LPRT01C	2,740	2,853	16	21	2.01	2.22	0.727	0.729	4.7	5	--	--

Location ID	Abundance (per m^2)		Richness		Shannon-Wiener H'		Pielou's J'		SDI		HBI[a]	
	BERA Value	Alt. Value	BERA Value	Alt. Value	BERA Value	Alt. Value	BERA Value	Alt. Value	BERA Value	Alt. Value	BERA Value	Alt. Value
LPRT01D	2,050	2,132	12	18	1.63	1.83	0.650	0.633	3.0	3	--	--
LPRT01E	2,750	4,418	13	17	1.71	1.81	0.669	0.638	3.1	3	--	--
LPRT01F	357	448	7	13	1.06	1.70	0.537	0.663	2.0	5	--	--
LPRT01G	973	1,078	11	17	1.42	1.79	0.600	0.630	2.3	3	--	--
LPRT02A	709	1,003	9	23	1.57	2.54	0.718	0.811	3.1	7	--	--
LPRT02B	127	213	7	12	1.68	2.32	0.887	0.932	4.0	7	--	--
LPRT02C	630	710	8	10	1.67	1.94	0.823	0.843	3.7	4	--	--
LPRT02D	1,290	933	13	14	2.07	2.32	0.816	0.877	5.0	7	--	--
LPRT02E	155	215	6	9	1.42	1.83	0.830	0.832	3.5	4	--	--
LPRT02F	240	398	9	19	1.73	2.42	0.807	0.821	4.0	10	--	--
LPRT03A	320	413	3	6	0.427	1.07	0.430	0.597	1.3	2	--	--
LPRT03B	773	945	6	9	1.45	1.77	0.803	0.808	3.0	4	--	--
LPRT03C	894	2,767	7	11	1.21	0.583	0.610	0.243	2.6	1	--	--
LPRT03D	1,370	603	11	15	1.69	2.32	0.728	0.858	3.9	6	--	--
LPRT03E	593	850	8	13	1.17	1.73	0.690	0.675	2.0	3	--	--
LPRT03F	693	888	9	13	1.49	2.07	0.697	0.808	3.0	5	--	--
LPRT04A	3,420	1,240	9	12	1.31	1.83	0.599	0.738	2.6	4	--	--
LPRT04B	523	633	6	10	1.41	1.84	0.790	0.801	2.7	4	--	--
LPRT04C	721	222	8	10	1.52	2.17	0.778	0.942	3.4	6	--	--
LPRT04D	1,220	1,343	5	9	0.507	0.841	0.297	0.383	1.0	1	--	--
LPRT04E	1,170	1,193	6	8	1.07	1.31	0.607	0.630	2.3	3	--	--
LPRT04F	333	380	5	8	1.09	1.58	0.757	0.760	2.3	3	--	--
LPRT05A	2,280	4,720	11	17	1.54	1.74	0.640	0.615	3.0	3	--	--
LPRT05B	852	708	9	14	1.57	1.75	0.746	0.664	3.6	3	--	--
LPRT05C	2,940	3,037	10	14	1.33	1.62	0.570	0.615	2.3	3	--	--
LPRT05D	227	297	6	11	1.08	1.86	0.603	0.775	2.7	5	--	--
LPRT05E	200	230	4	6	1.08	1.41	0.850	0.785	2.0	3	--	--
LPRT05F	147	223	3	7	0.737	1.33	0.740	0.683	2.0	2	--	--
LPRT06A	6,530	5,200	7	8	0.843	0.788	0.463	0.379	1.6	1	--	--
LPRT06B	3,380	3,472	4	9	0.147	0.271	0.100	0.123	1.0	1	--	--
LPRT06C	4,660	3,248	10	12	1.20	1.25	0.528	0.503	2.0	2	--	--
LPRT06D	7,030	11,665	8	14	1.13	1.39	0.533	0.528	2.0	3	--	--
LPRT06E	2,490	3,562	7	10	1.21	1.48	0.603	0.641	2.3	3	--	--
LPRT06F	927	933	2	3	0.547	0.480	0.727	0.437	1.7	1	--	--

Location ID	Abundance (per m^2)		Richness		Shannon-Wiener H'		Pielou's J'		SDI		HBI[a]	
	BERA Value	Alt. Value	BERA Value	Alt. Value	BERA Value	Alt. Value	BERA Value	Alt. Value	BERA Value	Alt. Value	BERA Value	Alt. Value
LPRT07A	5,110	4,540	9	13	0.942	1.20	0.436	0.468	1.8	2	--	--
LPRT07B	3,200	3,548	8	12	0.933	1.26	0.467	0.506	1.7	2	--	--
LPRT07C	2,680	670	7	10	0.893	0.980	0.469	0.426	1.4	1	--	--
LPRT07D	1,630	1,758	5	10	0.440	0.734	0.260	0.319	1.0	1	--	--
LPRT07E	3,740	3,773	7	9	0.383	0.438	0.217	0.199	1.0	1	--	--
LPRT08A	253	405	4	9	0.863	1.18	0.657	0.539	1.7	2	--	--
LPRT08B	340	352	3	4	0.773	0.910	0.703	0.656	2.0	2	--	--
LPRT08C	4,030	3,503	11	17	1.23	1.37	0.534	0.484	2.2	2	--	--
LPRT08D	843	882	6	8	1.10	1.20	0.677	0.577	2.0	2	--	--
LPRT08E	4,070	697	8	9	1.04	1.50	0.523	0.682	1.8	3	--	--
LPRT09A	1,300	1,387	9	15	1.14	1.50	0.510	0.554	2.0	2	--	--
LPRT09B	533	1,215	4	9	0.877	0.989	0.717	0.450	2.0	2	--	--
LPRT09C	9,890	11,514	9	15	1.07	1.18	0.550	0.435	2.0	2	--	--
LPRT09D	20,300	8,443	11	15	0.947	0.844	0.399	0.312	1.6	1	--	--
LPRT09E	6,180	6,443	9	15	1.04	1.21	0.460	0.448	2.0	2	--	--
LPRT09F	5,380	5,576	9	13	0.647	0.811	0.300	0.316	1.0	1	--	--
LPRT09G	1,090	1,780	5	10	0.967	1.47	0.627	0.637	2.0	2	--	--
LPRT09H	1,330	2,827	7	13	0.980	1.28	0.503	0.500	1.7	2	--	--
LPRT10A	11,100	11,483	10	16	0.810	0.907	0.357	0.327	1.3	1	--	--
LPRT10B	7,210	7,669	15	21	1.22	1.47	0.453	0.482	1.7	2	--	--
LPRT10C	24,300	10,573	13	22	0.968	1.10	0.378	0.354	1.4	1	--	--
LPRT10D	5,030	6,127	14	24	1.49	2.10	0.593	0.660	3.0	5	--	--
LPRT10E	37,900	14,110	12	16	1.19	1.45	0.484	0.522	2.3	2	--	--
LPRT11A	4,280	4,643	14	21	1.48	1.79	0.570	0.586	2.3	3	--	--
LPRT11B	4,610	5,163	13	20	1.65	1.95	0.647	0.652	3.0	4	--	--
LPRT11C	6,100	6,926	14	23	1.28	1.71	0.497	0.546	2.3	4	--	--
LPRT11D	29,600	17,526	16	26	1.38	1.80	0.500	0.552	2.6	3	--	--
LPRT11E	21,200	6,469	11	19	1.08	1.69	0.462	0.574	2.1	3	--	--
LPRT11F	6,050	6,258	16	22	1.62	1.81	0.587	0.586	3.3	4	--	--
LPRT11G	3,170	3,513	7	12	0.840	1.35	0.440	0.542	1.7	2	--	--
LPRT12A	7,270	4,127	16	16	1.38	1.42	0.510	0.513	2.7	2	--	--
LPRT12B	8,160	9,721	13	21	1.34	1.77	0.520	0.583	2.7	3	--	--
LPRT12C	9,850	11,461	15	32	1.26	1.79	0.463	0.518	2.3	3	--	--
LPRT12D	5,870	6,586	11	16	1.07	1.59	0.443	0.572	1.7	3	--	--

Location ID	Abundance (per m^2)		Richness		Shannon-Wiener H'		Pielou's J'		SDI		HBI[a]	
	BERA Value	Alt. Value	BERA Value	Alt. Value	BERA Value	Alt. Value	BERA Value	Alt. Value	BERA Value	Alt. Value	BERA Value	Alt. Value
LPRT12E	20,900	5,183	10	11	1.23	1.56	0.570	0.652	2.4	3	--	--
LPRT13A	2,600	2,933	11	22	1.28	1.73	0.540	0.561	2.0	3	--	--
LPRT13B	5,790	6,648	12	20	1.33	1.71	0.547	0.571	2.0	3	--	--
LPRT13C	4,630	4,710	9	12	1.07	1.15	0.490	0.463	2.0	2	--	--
LPRT13D	680	980	8	14	1.43	2.31	0.727	0.877	3.3	6	--	--
LPRT13E	23,200	13,490	13	18	1.40	1.59	0.550	0.551	2.9	3	--	--
LPRT13F	12,400	2,917	13	14	1.42	1.68	0.554	0.637	2.7	3	--	--
LPRT13G	2,690	3,154	8	15	1.15	1.59	0.570	0.587	2.0	3	--	--
LPRT14A	27,600	6,739	14	21	1.41	1.79	0.543	0.588	2.6	3	9.56	6.35
LPRT14B	11,500	12,502	14	21	1.63	1.92	0.620	0.631	3.7	4	9.36	5.56
LPRT14C	9,120	11,191	18	23	1.36	1.84	0.468	0.588	2.3	4	9.39	8.22
LPRT14D	7,980	8,753	17	25	1.73	2.05	0.610	0.635	3.7	5	8.99	7.01
LPRT14E	4,520	4,747	15	20	1.57	1.81	0.587	0.606	2.7	3	8.54	6.84
LPRT14F	8,450	9,125	19	27	1.96	2.15	0.677	0.653	5.0	6	8.67	6.79
LPRT15A	30,600	35,597	19	29	1.61	1.99	0.550	0.590	2.7	4	8.99	5.94
LPRT15B	21,800	5,446	14	30	1.34	2.02	0.562	0.595	2.3	3	9.64	4.69
LPRT15C	2,060	3,460	12	24	1.55	2.17	0.637	0.684	3.3	5	8.53	4.64
LPRT15D	15,700	9,425	17	38	1.69	2.41	0.600	0.663	3.2	8	9.32	5.56
LPRT15E	7,020	4,267	18	20	1.85	2.26	0.640	0.755	4.0	8	9.10	6.63
LPRT15F	4,180	4,463	15	24	1.61	2.04	0.593	0.643	3.3	5	8.76	5.56
LPRT16A	12,800	13,917	23	38	1.58	1.95	0.507	0.537	2.7	4	9.19	7.13
LPRT16C	10,400	7,437	21	24	2.07	2.12	0.710	0.666	5.3	5	8.56	6.68
LPRT16D	8,680	12,627	17	29	1.80	2.37	0.633	0.705	4.0	6	8.06	4.32
LPRT16E	1,990	2,267	8	14	1.32	1.74	0.640	0.661	2.7	3	8.91	3.01
LPRT17A	2,770	3,173	11	18	1.41	1.81	0.583	0.625	2.0	3	8.96	6.93
LPRT17D	3,640	9,358	10	26	0.901	1.63	0.433	0.500	1.7	3	9.45	7.15

Note: Alternative values are based on the alternative approach to calculating benthic community metrics: averaging the abundance of species across location replicates prior to calculating a single metric value. This method is distinguished herein from the method used in the BERA: calculating a metric value for each replicate prior to averaging the metric values across replicates.

[a] HBI is calculated only for samples in the tidal freshwater zone.

BERA – baseline ecological risk assessment
HBI – Hilsenhoff Biotic Index
ID – identification
SDI – Swartz's dominance index

2.3.4.1 *Quantitative analysis of uncertainty*

A quantitative analysis was conducted to address uncertainties associated with the benthic invertebrate community LOE. Methods and results of the analysis are detailed in this section.

Methods

Reference sediment data were screened differently than as described in Figure 2-1. An analysis of extreme low-toxicity values based on the interquartile range (IQR) was conducted to determine if there were reference area sediment toxicity data that were substantially less than the other reference area data (Appendix B, Tables B3-3 and B4-3). Reference locations were identified as outliers if a toxicity test survival endpoint value was less than three times the IQR below the 25th percentile of the data. When deemed necessary, best professional judgment was used to identify samples with sediment toxicity above the IQR-based threshold, but that were clearly impacted in some way aside from sediment chemical contamination. Although the toxic effects associated with urban sediments may be useful for establishing relevant reference envelope thresholds, allowing for extremely low values (e.g., survival < 25%) is inconsistent with the purpose of the reference condition approach. The extreme value removal step is intended to eliminate reference stations that are uncharacteristic of the reference area dataset (objectively defined) without imposing a predefined toxicity screening criterion (i.e., 75 or 80% survival relative to control). The IQR-based toxicity data screening procedure allows for greater variability in possible reference area data but does not allow for extreme low toxicity. Toxicity in sediments from reference areas may occur for several reasons (e.g., elevated total organic carbon [TOC] or excessive fine-grained sediments); however, since the data has already passed the initial sediment chemistry screening step, observed toxicity in reference sediments is unlikely to be the result of significant chemical exposures.

Results

The Jamaica Bay reference dataset consisted of 45 acceptable samples with co-located benthic community, sediment toxicity, and sediment chemistry data. No extreme values were removed from the Jamaica Bay dataset because sediment toxicity was highly variable in samples that passed the initial chemical screen. Table 2-11 presents a summary of the Jamaica Bay dataset using the quantitative analysis of uncertainty approach to define acceptable data from the Jamaica Bay estuary that could be used as reference conditions for the LPRSA.

Table 2-11. Summary of benthic community metrics in the Jamaica Bay estuary reference dataset for the quantitative analysis of uncertainty

Statistic	Abundance (per m^2)	Taxa Richness (No. of Taxa)	Shannon-Weiner H′	Pielou's J′	SDI (No. of Taxa)
Sample size	45	45	45	45	48
Minimum	110	3.5	0.519	0.232	1.0

Statistic	Abundance (per m^2)	Taxa Richness (No. of Taxa)	Shannon-Weiner H′	Pielou's J′	SDI (No. of Taxa)
Maximum	282,150	48	2.76	0.875	8.0
Mean	27,395	23	1.66	0.602	3.6
Standard deviation	48,227	12	0.501	0.150	1.6
5th percentile[a]	516	7.1	0.820	0.399	1.5
10th percentile	675	8.2	0.916	0.424	1.9
25th percentile	2,875	14	1.44	0.485	2.5
Median	14,050	22	1.66	0.608	3.3
75th percentile	25,113	29	2.00	0.697	4.5
90th percentile	64,943	42	2.23	0.835	6.0
95th percentile	90,125	44	2.42	0.855	6.7

Source: USEPA REMAP (2002b)

Note: Three samples (i.e., JB310, JB315, and JB366) were removed from the Jamaica Bay dataset based on best professional judgment regarding low *A. abdita* survival values. Survival in sediments from those Jamaica Bay locations ranged from 1.1 to 11% of the negative control. No values were identified as extreme using the three-times-IQR approach described above.

[a] Reference threshold for benthic invertebrate community LOE.

IQR – interquartile range
LOE – line of evidence
REMAP – Regional Environmental Monitoring and Assessment Program
SDI – Swartz's dominance index
USEPA – US Environmental Protection Agency

The urban freshwater reference data from above Dundee Dam that were deemed acceptable for the quantitative analysis of uncertainty consisted of 15 samples (an increase from 5 samples, described in Table 2-6). No extreme values were identified or removed based on sediment toxicity. Table 2-12 presents the summary of those data from above Dundee Dam.

Table 2-12. Summary of benthic community metrics from the reference area above Dundee Dam for the quantitative analysis of uncertainty

Statistic	Abundance (per m^2)	Taxa Richness (No. of Taxa)	Shannon-Weiner H′	Pielou's J′	SDI (No. of Taxa)	HBI[a]
Sample size	15	15	15	15	15	15
Minimum	2,070	13.7	1.76	0.617	3.67	6.84
Maximum	19,500	32.3	2.73	0.860	9.33	9.41
Mean	10,665	21.8	2.18	0.714	5.51	8.18
Standard deviation	5,038	4.66	0.274	0.0653	1.62	0.680
5th percentile	3,064	15.8	1.78	0.617	3.90	6.97
10th percentile	4,294	17.1	1.85	0.627	4.13	7.27
25th percentile	6,135	18.9	2.01	0.675	4.33	7.91
Median	11,500	21.3	2.16	0.720	5.00	8.25
75th percentile	14,150	24.7	2.31	0.739	6.17	8.55

Statistic	Abundance (per m^2)	Taxa Richness (No. of Taxa)	Shannon-Weiner H′	Pielou's J′	SDI (No. of Taxa)	HBI[a]
90th percentile	15,740	26.3	2.55	0.783	7.67	8.89
95th percentile	17,120	28.4	2.67	0.811	8.63	9.08

Source: Windward (Draft)

[a] HBI was determined using NYSDEC tolerance values, with the exception of values for arthropods, which were taken from Hilsenhoff (1987).

HBI – Hilsenhoff Biotic Index

NYSDEC – New York State Department of Environmental Conservation

SDI – Swartz's dominance index

Windward – Windward Environmental LLC

The Mann-Whitney U test results based on the alternative datasets developed for the quantitative analysis of uncertainty are presented in Table 2-13 (and Appendix B, Tables B6-2c and B6-2d). There were similar significant differences between the LPRSA benthic invertebrate community metric datasets (for the uncertainty analysis) and reference area datasets.

Table 2-13. Results of the statistical analysis comparing the LPRSA benthic invertebrate community data with corresponding reference dataset for the quantitative analysis of uncertainty

LPRSA Benthic Salinity Zone	Area of Interest for Comparison	Is There a Significant Difference Between LPRSA Reference Area Data? (Mann-Whitney U test, alpha = 0.05)					
		Abundance (per m^2)[a]	Taxa Richness	Shannon-Weiner H'	Pielou's J'	SDI	HBI[b]
Upper estuary	Jamaica Bay (urban)	**yes; 4.14E-07**	**yes; 3.95E-08**	**yes; 9.45E-03**	no; 9.85E-01	**yes; 4.77E-02**	na[c]
Fluvial estuary	Jamaica Bay (urban)	**yes; 2.01E-03**	**yes; 4.24E-10**	**yes; 1.23E-08**	**yes; 1.16E-02**	**yes; 2.49E-08**	na[c]
Upper estuary	Mullica River and Great Bay (non-urban)	**yes; p = 1.28E-05**	**yes; p = 1.06E-05**	**yes; p = 2.30E-02**	no; p = 6.69E-01	no; p = 6.27E-02	na[c]
Fluvial estuary	Mullica River and Great Bay (non-urban)	no; p = 2.35E-01	**yes; p = 7.97E-06**	**yes; p = 1.40E-04**	**yes; p = 4.26E-02**	**yes; p = 7.95E-05**	na[c]
Tidal freshwater	Above Dundee Dam (urban)	no; p = 4.37E-01	**yes; p = 3.36E-04**	**yes; p = 4.70E-06**	no; p = 1.73E-05	**yes; p = 1.53E-05**	**yes; p = 2.77E-04**

Note: **Bold** text indicates significant result ($p < 0.05$); significance/p-values are based on lower-tailed Mann-Whitney U tests, unless otherwise noted.

[a] Abundance tested using two-tailed Mann-Whitney U test.

[b] HBI tested using upper-tailed Mann-Whitney U test.

[c] HBI is specific to freshwater, so comparison to Jamaica Bay or Mullica River/Great Bay data was not appropriate

HBI – Hilsenhoff Biotic Index

LPRSA – Lower Passaic River Study Area

na – not applicable

SDI – Swartz's dominance index

Using the 5th and/or 95th percentile reference values to establish location-by-location differences between LPRSA benthic metrics values and reference conditions, it was determined that data from several LPRSA SQT locations were outside the reference envelope (Table 2-14; Figure 2-9; Appendix B, Tables B3 and B4). Richness and diversity were the most consistently different metrics across salinity zones, whereas evenness and dominance were different at the fewest locations (at least in the upper and fluvial estuarine zones). In the upper estuarine zone, abundance was also frequently outside the reference envelope, while evenness and dominance were inside. In the fluvial estuarine zone, abundance was less frequently outside the reference envelope (than in the upper estuarine zone), but diversity, evenness, and dominance increased (relative to the upper estuarine zone). In the tidal freshwater zone, most of the benthic metrics (excepting abundance) were outside the reference envelope at a majority of LPRSA locations. More LPRSA locations exceeded the non-urban reference envelope than the urban reference envelope, as expected (Table 2-14).

Table 2-14. Summary of comparison of benthic community metrics within reference envelope for the quantitative analysis of uncertainty

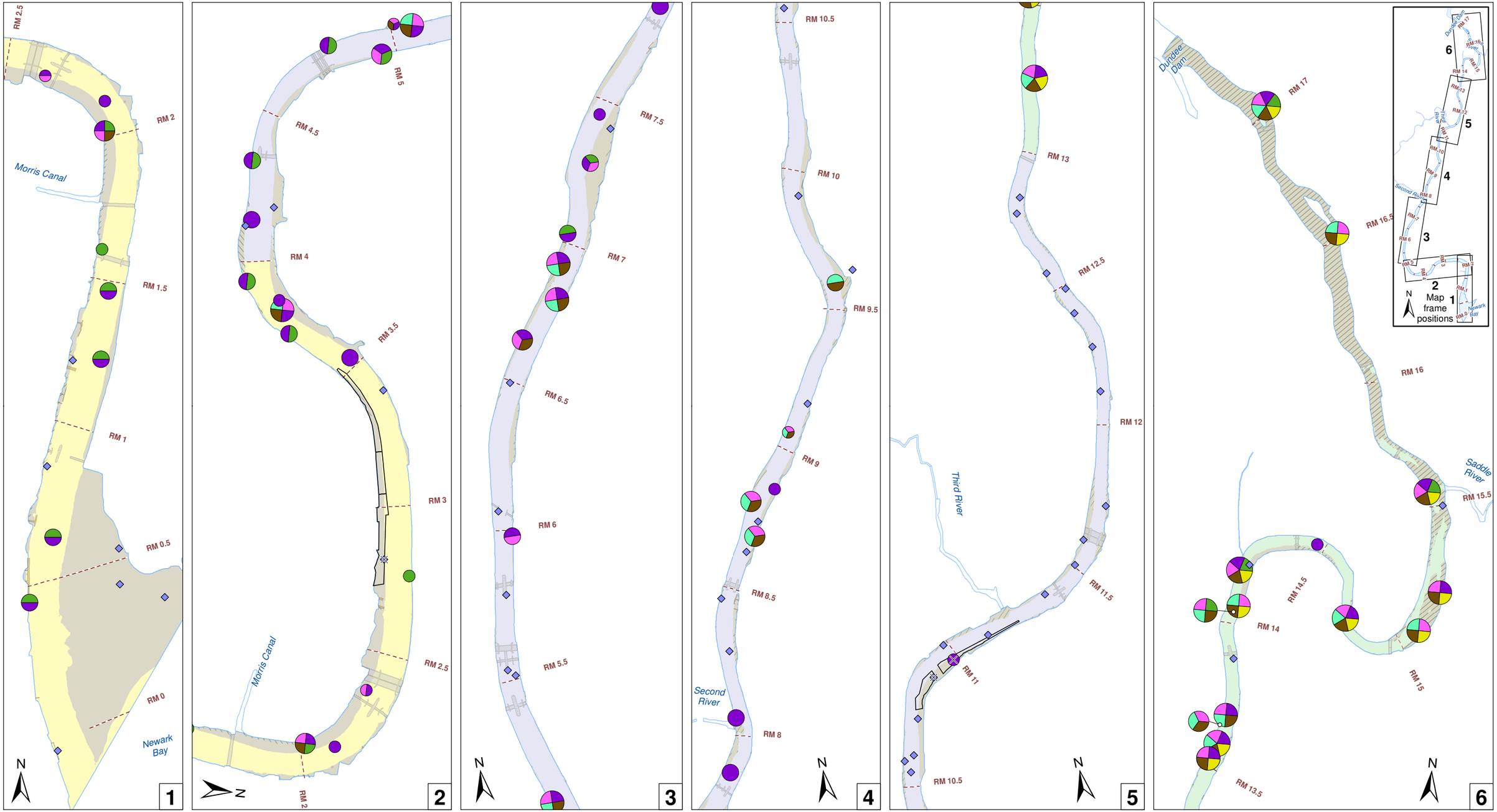
Benthic Salinity Zone	Statistic	Abundance (per m^2)	Taxa Richness (No. of Taxa)	Shannon-Weiner H′	Pielou's J′	SDI (No. of Taxa)	HBI[a]
Comparison with Jamaica Bay (urban)							
Upper estuary (RM 0 to RM 4)	sample size	25	25	25	25	25	na[b]
	no. of locations outside reference envelope	9	12	3	1	2	na[b]
	percent of locations outside reference envelope	36%	48%	12%	4%	8%	na[b]
Fluvial estuary (RM 4 to RM 13)[c]	sample size	54	54	54	54	54	na[b]
	no. of locations outside reference envelope	5	17	11	7	9	na[b]
	percent of locations outside reference envelope	9%	31%	20%	13%	17%	na[b]
Comparison with Mullica River and Great Bay (non-urban)							
Upper estuary (RM 0 to RM 4)	sample size	25	25	25	25	25	na[b]
	no. of locations outside reference envelope	21	19	3	1	2	na[b]
	percent of locations outside reference envelope	84%	76%	12%	4%	8%	na[b]
Fluvial estuary (RM 4 to RM 13)[c]	sample size	54	54	54	54	54	na[b]
	no. of locations outside reference envelope	15	30	18	5	18	na[b]
	percent of locations outside reference envelope	28%	56%	33%	9%	33%	na[b]
Comparison with the area above Dundee Dam (urban)							
Tidal freshwater (RM 13 to RM 17.4)	sample size	18	18	18	18	18	18
	no. of locations outside reference envelope	4	10	14	10	14	11
	percent of locations outside reference envelope	22%	56%	78%	56%	78%	61%

[a] HBI was determined using NYSDEC tolerance values. HBI was the only metric compared to the maximum; all others were compared to the minimum.

[b] HBI applies to only tidal freshwater locations.

[c] Methods of sample collection differed between these two datasets (e.g., sieve sizes used were 1 mm or 0.5 mm); within the fluvial estuarine zone of the LPRSA, only samples upstream of RM 8.5 differed in this way.

HBI – Hilsenhoff Biotic Index
LPRSA – Lower Passaic River Study Area
na – not applicable
NYSDEC – New York State Department of Environmental Conservation
RM – river mile
SDI – Swartz's dominance index



Metric outside reference envelope[a]

- Abundance (per m²)
- Taxa Richness
- Shannon-Wiener H' (log e)
- Pielou's J'
- Swartz's Dominance
- Hilsenhoff Biotic Index

- All metrics within reference envelope
- Remediated location[b]
- Dredge zone
- Upper Estuarine
- Fluvial Estuarine
- Tidal Freshwater

- Bridge
- Abutment
- Dock
- River mile
- Mudflat
- Gravel with fines

0 0.25 0.5 Miles

0 0.25 0.5 Kilometers

Mudflat areas for ecological receptors are those areas where the river bottom slope is ≤ 6° and the depth is ≥ -2 ft MLLW, based on the 2007 CPG bathymetric survey.

[a]Hilsenhoff Biotic Index value above the 95th percentile of the reference data; Abundance value above the 95th percentile or below the 5th percentile; all other metrics below the 5th percentile. Note: Locations downstream of RM 13 were compared to urban reference data from Jamaica Bay; locations upstream of RM 13 were compared to urban reference data from the area of the Passaic River above Dundee Dam.

[b]One sample was collected in the Lister Ave. dredge area at RM 2.8 and two were collected in the RM 10.9 dredge area.

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Figure 2-9. Benthic community metrics in the LPRSA compared with reference data representing urban habitats for the quantitative analysis of uncertainty
Appendix P. Lower Passaic River Study Area Baseline Ecological Risk Assessment

FINAL

Prepared by mikey 5/30/2019; W:\Projects\06-58-01 Passaic RI\Data\GIS\Maps_and_Analysis\BERA\Revised BERA 2016\6370_Benthic metrics_Urban -alternative-_LSM_20160721.mxd

These results suggest somewhat depressed communities throughout the LPRSA, particularly in the tidal freshwater zone. Communities in the fluvial estuarine zone are exposed to a more stressful environment caused by daily fluctuations in overlying water chemistry (e.g., salinity). Salinity conditions are not expected to be as extreme in the Jamaica Bay estuary based on measured salinities in that areas (Appendix L, Attachment L3, Figure 2); salinities in Mullica River/Great Bay fluctuate to a greater extent, although they generally remain above interstitial salinities measured throughout the LPRSA (at 2009 SQT sampling locations).

Benthic communities in the LPRSA tidal freshwater zone are generally depressed relative to communities in the area above Dundee Dam (e.g., ≥ 56% of tidal freshwater SQT locations are outside the reference envelope for all benthic metrics, excepting abundance [22%]). This may be due, in part, to somewhat different habitats evaluated in the two areas; freshwater LPRSA locations tended to be shallower and to have coarser substrates than locations above Dundee Dam. The results may also be due, in part, to greater chemical contamination within the LPRSA relative to reference data screened for sediment chemistry (i.e., chemical impacts).

Metrics in the upper estuarine zone appear to be generally similar to urban reference conditions, with a maximum (across metrics) of 31% of LPRSA locations exceeding the reference condition for taxa richness.

2.4 SUMMARY

A comparison of LPRSA benthic community metrics with the reference datasets indicates that the benthic community in the upper estuarine salinity zone is somewhat different than the community in a less contaminated, urban estuary (Jamaica Bay), or in the non-urban estuary of Mullica River and Great Bay (Table 2-7). Most of the benthic community metrics for the upper estuarine zone and fluvial estuarine zone are significantly different than those in Jamaica Bay and Mullica River/Great Bay; the differences are substantiated somewhat by the location-by-location comparison of community metrics to reference envelope thresholds (Table 2-8). Specifically, there are notable differences in abundance and richness between the locations in the upper estuarine zone of the LPRSA and locations in Jamaica Bay. However, the analysis also suggests that there are inconsistent impacts across multiple metrics (e.g., 8, 4, and 4% exceedance rates for Shannon-Wiener H′, Pielou's J′, and SDI, respectively) (Table 2-8).

Although as a group most of the benthic community metrics for the fluvial estuarine zone are significantly different than those for Jamaica Bay or Mullica River/Great Bay (Table 2-7), the location-by-location comparison of community metrics to the estuarine reference envelope (Table 2-8) indicates that location-specific differences are sometimes minor and inconsistent across multiple metrics. For example, exceedance frequency of the urban reference condition in the LPRSA fluvial estuarine zone was ≤ 17% for abundance, Pielou's J′, and SDI (Table 2-8).

Based on a comparison of the LPRSA benthic metrics to those from above Dundee Dam, it appears that benthic communities in the tidal freshwater LPRSA are frequently impaired (Table 2-8). This is corroborated by Mann-Whitney U test results used to discern significant overall differences (Table 2-7). Only abundance was generally similar between the LPRSA and the area above Dundee Dam, exceeding the reference condition at only 22% of tidal freshwater LPRSA locations.

3 Sediment Toxicity Testing Line of Evidence

Sediment toxicity tests assess the ability of sediment to support benthic communities that include sensitive taxa. The results of toxicity tests conducted using LPRSA surface sediment samples were evaluated as an independent LOE in assessing risks to the benthic community (Appendix B, Tables B3, B4, and B5). Toxicity test data were also incorporated into the SQT and WOE analyses (Section 6.1 of the BERA main text; Appendix B, Tables B8 and B9).

Laboratory toxicity testing was conducted using sediment collected from 98 locations in the LPRSA.[11] LPRSA test results were compared with toxicity test results from USEPA-approved reference areas: Jamaica Bay and the Mullica River/Great Bay estuary, both of which represent estuarine reference conditions (and urban and non-urban conditions, respectively), and the area above Dundee Dam within the Passaic River (upstream of the LPRSA), which represents urban, freshwater reference conditions (Appendix B, Tables B3 and B4). LPRSA data were also compared to laboratory negative control results (Appendix B, Table B5). The reference area data are assumed to represent toxicological conditions in water bodies similar to the LPRSA, but without site-specific, regulated hazardous materials, but the Mullica River/Great Bay data do not represent urban conditions. The comparison of LPRSA data to reference area data provides insight into the potential impact of site-specific chemistry on sediment toxicity. The comparison of LPRSA data to negative control results is a quality control measure; negative controls are generally used to confirm the health of laboratory test organism cultures.[12]

3.1 METHODS

Sediment for toxicity testing was co-located with sediment that underwent chemical analysis (and benthic invertebrate community analysis). The samples were collected to a depth of 15 cm (6 in.) using a grab sampler. Replicate sediment samples ($n \geq 3$) from a given location were composited and homogenized.[13] A subsample was apportioned for toxicity testing, and the remainder of the sample was apportioned for chemical analysis.[14]

Two sediment toxicity tests were conducted using each of the 98 sediment samples according to the following methods:

[11] Benthic community survey data were not collected from 1 of 98 LPRSA sampling locations (LPRT16B) where sediment was collected in fall 2009 for sediment toxicity testing and chemical analysis.

[12] For example, test acceptability criteria for negative control survival are established in standard methods; failure of a negative control to meet the test acceptability criterion results in invalid test results.

[13] Additional information regarding the 2009 LPRSA sediment sampling event is provided in data reports (Windward 2014, 2018b).

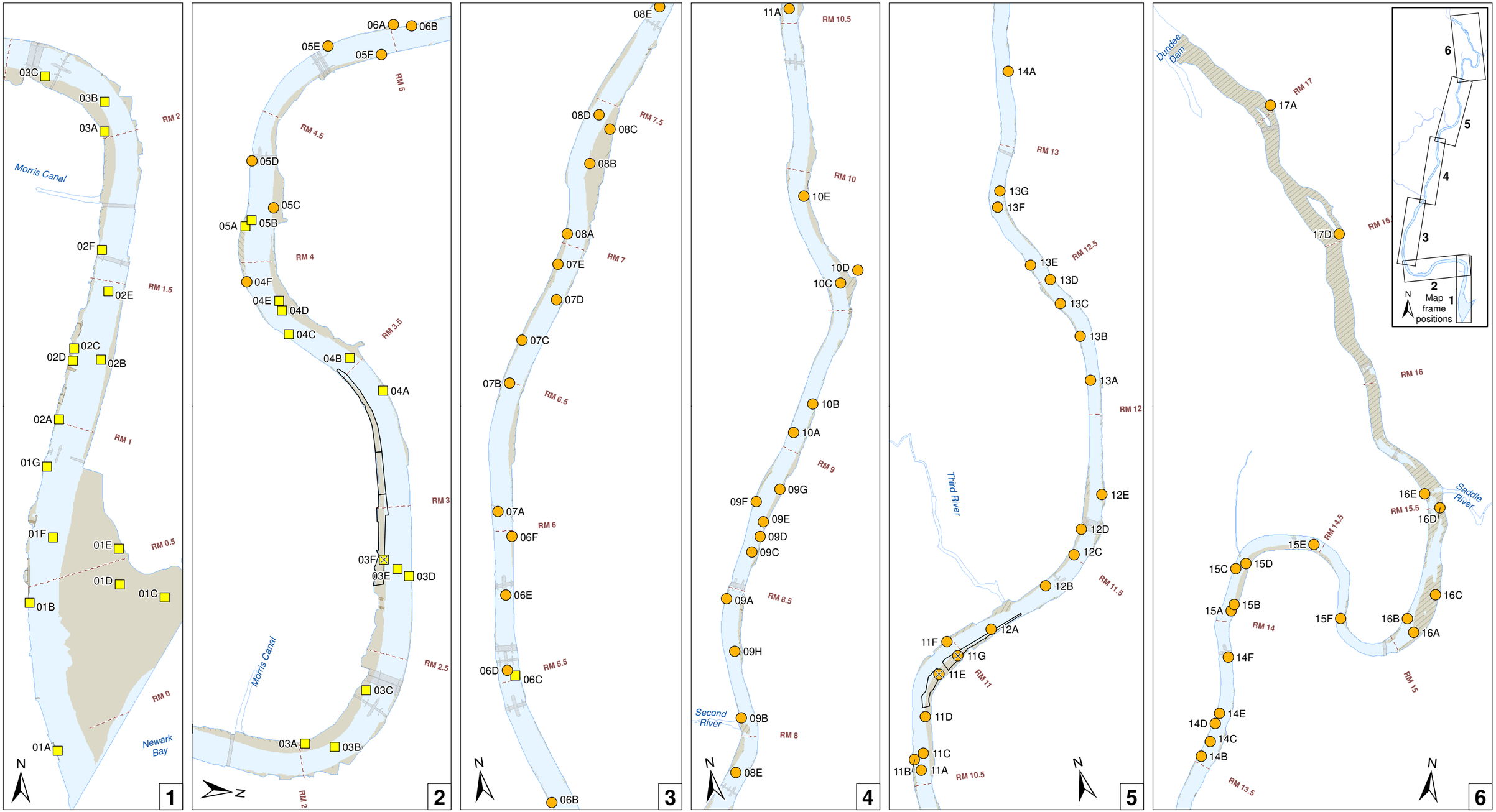
[14] Sediment samples for benthic community analysis were not homogenized prior to processing.

- Estuarine sediment samples
  - 10-day *A. abdita* survival test (ASTM 2008), with static renewal conditions
  - 28-day *H. azteca* survival and growth test using amphipods acclimated to 10 ppt salinity and conducted using sediment adjusted to 10 ppt salinity[15] (USEPA 2000)
- Freshwater sediment samples
  - 10-day *C. dilutus* survival and growth test (USEPA 2000)
  - 28-day *H. azteca* survival and growth test (USEPA 2000)

Samples were considered estuarine or freshwater for the purpose of sediment toxicity testing based on the interstitial water salinity at the time of sample collection. Interstitial water salinity was measured in the sediment samples after arrival at the toxicity testing laboratory. Samples with interstitial water salinity < 5 ppt were considered freshwater.[16] Samples with interstitial water salinity ≥ 5 ppt were considered estuarine. Based on these salinity measurements, 27 locations were considered estuarine, and 71 were considered freshwater (Figure 3-1). This definition of salinity differs from the salinity zones described in Section 2.1, which were based on a general understanding of the LPRSA as described in Section 2.2.1 of the BERA main text.

[15] Prior to testing, *H. azteca* were acclimated to 10 ppt seawater, which is within the known salinity tolerance of *H. azteca* (USEPA 2000).

[16] The threshold of 5 ppt was based on American Society for Testing and Materials (ASTM) (2007), which states that chironomid larvae are found in the field at a conductivity that ranges between 100 and 4,000 µS/cm (4,000 µS/cm at 0°C is equivalent to 4.1 ppt salinity).



Windward environmental LLC

0 0.25 0.5 Miles

0 0.25 0.5 0.75 Kilometers

- Freshwater
- Estuarine
- Freshwater remediated location[a]
- Estuarine remediated location[a]
- Dredge zone
- Bridge
- Abutment
- Dock
- River mile
- Mudflat
- Gravel with fines
- LPRSA

[a]One sample was collected in the Lister Ave. dredge area at RM 2.8 and two were collected in the RM 10.9 dredge area.

Note: Locations with interstitial salinity ≤5 ppt were tested using freshwater methods, locations with interstitial salinity >5 ppt were tested using estuarine methods.

Mudflat areas for ecological receptors are those areas where the river bottom slope is ≤ 6° and the depth is ≥ -2 ft MLLW, based on the 2007 CPG bathymetric survey.

Figure 3-1. Distribution of freshwater and estuarine benthic sediment toxicity testing locations in the LPRSA

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Details of the toxicity test methods and results are presented in the *Fall 2009 Sediment Toxicity Test Data Report of the Lower Passaic River Study Area* (Windward 2018b). The toxicity tests were performed according to American Society for Testing and Materials (ASTM) and USEPA methods (ASTM 2007, 2008; USEPA 2000), which incorporate standard QA/QC procedures for evaluating the validity of test results. These procedures included the use of negative and positive controls and the periodic measurement of water quality during testing. Sediment samples were tested in batches to minimize the time between sample collection and testing, and to ensure that sample holding times were met for all samples. Each test batch was conducted with a batch-specific negative control, which was required to meet test-specific acceptability criteria. The batch-specific negative control was also used to calculate control-normalized toxicity values; control normalization was calculated by dividing the mean toxicity test result from an LPRSA location by the mean batch-specific negative control toxicity test value.[17] A third-party validator conducted a 100% validation of the toxicity test data, which included an initial evaluation of all data for completeness and accuracy, followed by a final evaluation of the overall quality and usability of the data (Dinnel 2010). The various toxicity tests were deemed acceptable based on the acceptable performance of negative controls in all batches.

CPG prepared a project-specific standard operation procedure (SOP) for the 28-day *H. azteca* survival and growth test that described the steps for acclimating and culturing the amphipods to water with 10 ppt salinity, and for conducting the sediment toxicity test exposure with overlying water adjusted to 10 ppt salinity. The USEPA-approved, project-specific SOP (Windward 2009) was reviewed by Dr. Chris Ingersoll, an aquatic toxicologist and branch chief of the US Geological Survey (USGS) Columbia Environmental Research Center, Columbia, Missouri, who has led the development of numerous toxicity test methods.

The *A. abdita* survival test method was modified from the method presented by ASTM (2008), and the change had the potential to alter toxicity test results. Specifically, the test was run using a static renewal exposure rather than a static exposure.[18] This could influence the test in two ways. Gently adding overlying water has the effect of stabilizing water quality conditions (e.g., dissolved oxygen [DO], ammonia) in test chambers, which should result in greater survival and growth. This does not constitute a positive bias because sediment toxicity is not altered; rather, the stressful conditions that are created as a result of the toxicity test itself are ameliorated. Static renewal can introduce positive bias into toxicity tests that are driven by volatile compounds. Small perturbations of overlying test chamber waters can increase volatilization and thereby decrease chemical exposures. In the LPRSA, key chemicals

[17] Control normalization is used to standardize toxicity test results to a constant level of laboratory test organism culture health.

[18] This deviation from standard method was suggested by USEPA Region 2 during the development of the USEPA-approved project-specific SOP for sediment toxicity testing (Windward 2009).

of interest (COIs) have low or no volatility under standard toxicity test conditions (e.g., temperature and atmospheric pressure), so the influence of renewal is expected to have had a negligible effect on *A. abdita* toxicity test exposures.

The comparison of LPRSA sediment toxicity data to reference area data was similar to the comparison of benthic invertebrate community metric data (Section 2; Appendix B, Tables B3 and B4), although in addition to the comparison to reference conditions, negative control data (from sediment toxicity tests) were compared with LPRSA data (Appendix B, Table B5). Statistical tests were used to identify significant differences between LPRSA data and negative control data. In order to select the most appropriate t-test for comparing negative controls to LPRSA data, two tests of initial assumptions were run: Levene's test of equality of variance (alpha = 0.05), and the Shapiro-Wilk test of normality (alpha = 0.05). If the data satisfied normality (Shapiro-Wilk $p \geq 0.05$) and equality of variance (Levene's $p < 0.05$), then the standard Student's t-test was applied (one-tailed, alpha = 0.05). If variances were not equal between the LPRSA data and negative control, then the Welch's test was applied (one-tailed, alpha = 0.05). If normality was not satisfied, then toxicity test results were converted to rankit units[19] and tested using either the Student's t-test or Welch's test (one-tailed and alpha = 0.05 for either test), depending on the equality of variance between LPRSA and negative control rankit values. One-tailed tests were used to identify whether LPRSA sediment toxicity test results were significantly lower (or more toxic) than the negative control.

3.2 RESULTS

This section presents the results of the toxicity testing of sediment collected in the LPRSA in fall 2009 (Windward 2018b). Table 3-1 provides the control-normalized toxicity data for the LPRSA estuarine and freshwater samples. The complete dataset (e.g., including raw toxicity values and sample standard deviations) for the toxicity test results is provided in Appendix K, Table K5.

Table 3-1. LPRSA sediment toxicity data

Location ID	Test Type	*C. dilutus* Survival (% of Control)	*C. dilutus* Biomass (% of Control)[a]	*H. azteca* Survival (% of Control)	*H. azteca* Biomass (% of Control)[b]	*A. abdita* Survival (% of Control)
LPRT01A	estuarine	nt	nt	87.9	82.3	89.7
LPRT01B	estuarine	nt	nt	89.2	71.5	97.3
LPRT01C	estuarine	nt	nt	41.1	25.9	98.6
LPRT01D	estuarine	nt	nt	81.1	69.9	59.5
LPRT01E	estuarine	nt	nt	24.6	18.6	90.9
LPRT01F	estuarine	nt	nt	94.6	69.0	87.6
LPRT01G	estuarine	nt	nt	89.2	64.7	99.5

[19] Rankits were calculated using the `qnorm` function in R (R Core Team 2015).

Table 3-1. LPRSA sediment toxicity data

Location ID	Test Type	*C. dilutus* Survival (% of Control)	*C. dilutus* Biomass (% of Control)[a]	*H. azteca* Survival (% of Control)	*H. azteca* Biomass (% of Control)[b]	*A. abdita* Survival (% of Control)
LPRT02A	estuarine	nt	nt	86.5	55.6	91.9
LPRT02B	estuarine	nt	nt	71.7	59.6	71.4
LPRT02C	estuarine	nt	nt	94.5	67.9	98.6
LPRT02D	estuarine	nt	nt	82.1	56.7	101.9
LPRT02E	estuarine	nt	nt	82.5	68.3	80.0
LPRT02F	estuarine	nt	nt	90.6	60.6	85.4
LPRT03A	estuarine	nt	nt	82.5	84.4	62.7
LPRT03B	estuarine	nt	nt	87.9	83.0	96.2
LPRT03C	estuarine	nt	nt	56.2	42.6	93.1
LPRT03D	estuarine	nt	nt	85.2	64.2	89.7
LPRT03E	estuarine	nt	nt	86.5	95.1	91.9
LPRT03F	estuarine	nt	nt	72.6	43.2	89.8
LPRT04A	estuarine	nt	nt	98.7	95.9	84.3
LPRT04B	estuarine	nt	nt	87.9	70.8	23.8
LPRT04C	estuarine	nt	nt	35.6	17.0	16.4
LPRT04D	estuarine	nt	nt	68.5	51.4	76.7
LPRT04E	estuarine	nt	nt	61.7	35.3	88.7
LPRT04F	freshwater	82.9	82.1	86.5	44.0	nt
LPRT05A	estuarine	nt	nt	6.8	2.6	39.4
LPRT05B	estuarine	nt	nt	16.4	6.0	94.2
LPRT05C	freshwater	95.8	70.3	52.8	18.6	nt
LPRT05D	freshwater	88.6	71.3	67.6	31.5	nt
LPRT05E	freshwater	95.9	70.6	70.2	45.0	nt
LPRT05F	freshwater	104.3	65.1	33.8	16.0	nt
LPRT06A	freshwater	94.3	59	87.9	38.5	nt
LPRT06B	freshwater	82.9	65.6	64.9	21.3	nt
LPRT06C	estuarine	nt	nt	52.0	25.5	94.2
LPRT06D	freshwater	90.1	62.1	63.6	19.3	nt
LPRT06E	freshwater	90.1	73.8	81.1	37.0	nt
LPRT06F	freshwater	88.0	60.7	89.5	58.2	nt
LPRT07A	freshwater	95.9	90	67.2	30.7	nt
LPRT07B	freshwater	95.8	64.6	21.6	7.3	nt
LPRT07C	freshwater	100.0	52.2	71.6	36.1	nt
LPRT07D	freshwater	89.3	74.6	65.6	35.0	nt

Table 3-1. LPRSA sediment toxicity data

Location ID	Test Type	*C. dilutus* Survival (% of Control)	*C. dilutus* Biomass (% of Control)[a]	*H. azteca* Survival (% of Control)	*H. azteca* Biomass (% of Control)[b]	*A. abdita* Survival (% of Control)
LPRT07E	freshwater	85.3	59.2	74.6	41.6	nt
LPRT08A	freshwater	97.3	75.6	50.7	21.8	nt
LPRT08B	freshwater	100.0	68.2	62.6	39.9	nt
LPRT08C	freshwater	101.3	59.7	35.8	22.5	nt
LPRT08D	freshwater	72.9	83.6	77.1	42.9	nt
LPRT08E	freshwater	105.7	94.4	69.0	46.9	nt
LPRT09A	freshwater	94.3	57.9	36.5	12.5	nt
LPRT09B	freshwater	85.6	80.2	70.6	72.6	nt
LPRT09C	freshwater	88.2	69.2	67.6	60.2	nt
LPRT09D	freshwater	100.0	83.1	79.1	43.8	nt
LPRT09E	freshwater	97.3	75.6	59.7	32.8	nt
LPRT09F	freshwater	92.0	90.5	43.3	21.1	nt
LPRT09G	freshwater	93.3	97.5	103.0	63.5	nt
LPRT09H	freshwater	84.3	78.5	81.1	49.7	nt
LPRT10A	freshwater	78.9	34.5	64.7	41.4	nt
LPRT10B	freshwater	15.8	4.7	19.2	9.0	nt
LPRT10C	freshwater	98.7	36.2	69.2	52.4	nt
LPRT10D	freshwater	80.3	57.3	101.5	92.0	nt
LPRT10E	freshwater	98.6	72.6	37.4	25.5	nt
LPRT11A	freshwater	80.3	52.3	93.4	76.3	nt
LPRT11B	freshwater	47.4	20.3	64.7	37.4	nt
LPRT11C	freshwater	82.9	77.3	64.7	50.8	nt
LPRT11D	freshwater	88.2	55.8	79.4	60.7	nt
LPRT11E	freshwater	92.1	46.3	89.8	52.4	nt
LPRT11F	freshwater	94.7	45.8	52.9	42.8	nt
LPRT11G	freshwater	72.4	12.4	16.2	6.1	nt
LPRT12A	freshwater	94.7	55.9	67.6	32.1	nt
LPRT12B	freshwater	97.4	38	83.9	47.7	nt
LPRT12C	freshwater	80.3	29.3	58.8	27.0	nt
LPRT12D	freshwater	101.4	48.9	58.8	25.9	nt
LPRT12E	freshwater	90.8	25.4	52.9	27.3	nt
LPRT13A	freshwater	86.8	51.1	55.9	30.1	nt
LPRT13B	freshwater	93.5	52	90.9	48.3	nt
LPRT13C	freshwater	100.0	62.7	84.8	40.9	nt

Table 3-1. LPRSA sediment toxicity data

Location ID	Test Type	*C. dilutus* Survival (% of Control)	*C. dilutus* Biomass (% of Control)[a]	*H. azteca* Survival (% of Control)	*H. azteca* Biomass (% of Control)[b]	*A. abdita* Survival (% of Control)
LPRT13D	freshwater	93.5	38	92.7	51.8	nt
LPRT13E	freshwater	96.1	73.4	90.9	45.8	nt
LPRT13F	freshwater	94.8	103.7	81.8	53.7	nt
LPRT13G	freshwater	98.7	66	93.9	53.0	nt
LPRT14A	freshwater	92.1	44.5	44.1	27.3	nt
LPRT14B	freshwater	98.7	48.3	45.6	16.1	nt
LPRT14C	freshwater	92.1	61.3	85.3	52.3	nt
LPRT14D	freshwater	80.3	37.3	63.3	26.8	nt
LPRT14E	freshwater	96.1	50.7	52.9	21.4	nt
LPRT14F	freshwater	92.1	68.1	88.2	48.2	nt
LPRT15A	freshwater	100.0	54.1	58.8	35.9	nt
LPRT15B	freshwater	101.4	49.5	78.0	55.0	nt
LPRT15C	freshwater	93.5	43.1	80.9	46.0	nt
LPRT15D	freshwater	78.9	35.9	73.5	44.5	nt
LPRT15E	freshwater	97.4	46.4	89.8	59.4	nt
LPRT15F	freshwater	92.1	43.8	95.6	63.5	nt
LPRT16A	freshwater	73.7	53.8	78.5	54.2	nt
LPRT16B[c]	freshwater	78.9	66.3	95.6	114.5	nt
LPRT16C	freshwater	88.2	79.1	97.1	105.2	nt
LPRT16D	freshwater	96.1	101.2	86.8	63.4	nt
LPRT16E	freshwater	84.2	89.5	92.7	102.5	nt
LPRT17A	freshwater	78.9	43.4	98.6	64.9	nt
LPRT17D	freshwater	96.1	51.6	104.5	70.2	nt

Source: Windward (2018b)

[a] Biomass for *C. dilutus* was calculated as the total AFDW for each replicate divided by the initial number of organisms introduced into the test chamber minus the number of organisms that either emerged or pupated during the test.

[b] Biomass for *H. azteca* was calculated as the total weight for each replicate divided by the initial number of organisms introduced into the test chamber.

[c] LPRT16B was not analyzed using the full SQT analysis in the BERA because benthic community data were not collected at that sampling location.

AFDW – ash-free dry weight
BERA – baseline ecological risk assessment
ID – identification
LPRSA – Lower Passaic River Study Area
nt – not tested
SQT – sediment quality triad

For the 27 estuarine samples, the survival of *A. abdita* ranged from 15 to 97% of the negative control results, with a mean of 78% of control survival. *H. azteca* survival results were similar, ranging from 7 to 98% of the negative control, with a mean of

71% of control survival. *H. azteca* biomass ranged from 3 to 96% of the negative control with a mean of 55% of control results.

For the 71 freshwater samples, minimum survival values for both *C. dilutus* and *H. azteca* were 16% of the negative control; maximum survival was 110% of the control for *C. dilutus* and 100% of control for *H. azteca*. Mean survival values, as a percentage of the negative control, were 90 and 70% for *C. dilutus* and *H. azteca*, respectively.

3.2.1 Negative control data

3.2.1.1 Results

Detailed results from comparisons of LPRSA sediment toxicity test data to negative control data are provided in Appendix B, Table B5-1. Table 3-2 provides a summary of the comparisons between LPRSA and negative control toxicity test data.

Table 3-2. Summary of statistical tests comparing LPRSA sediment toxicity test results to negative control results

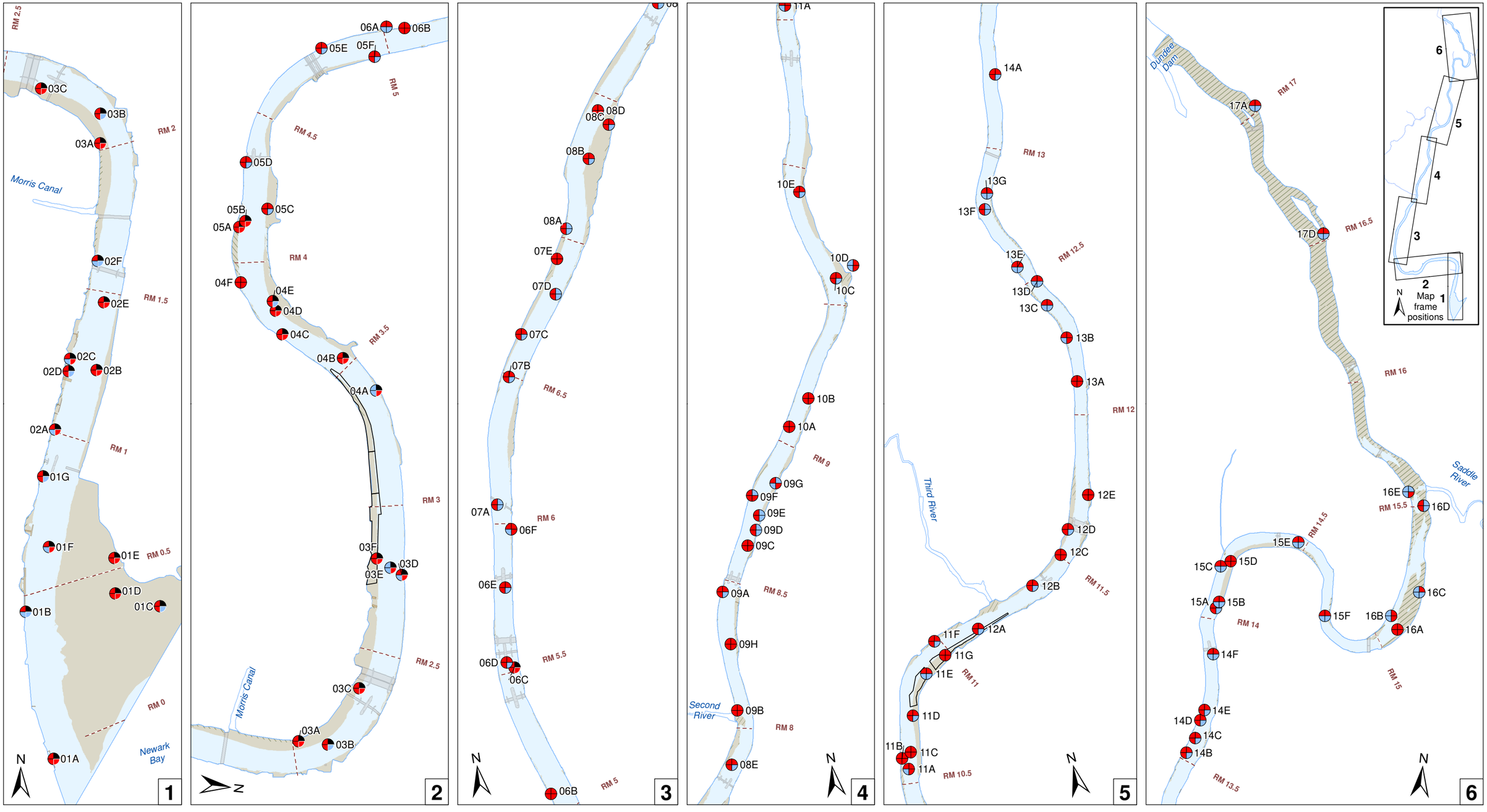
Toxicity Test Endpoint	No. Significantly Different LPRSA Locations[a]	No. of LPRSA Locations	Percentage Significantly Different LPRSA Locations[a]
C. dilutus 10-day biomass	61	71	86%
C. dilutus 10-day survival	25	71	35%
H. azteca 28-day biomass	92	98	94%
H. azteca 28-day survival	69	98	70%
A. abdita 10-day survival	20	27	74%

[a] Significance based on Student's or Welch's t-tests using raw or rankit data, as appropriate; Section 3.1 provides the decision process for selecting appropriate test methods.

LPRSA – Lower Passaic River Study Area

3.2.1.2 Summary of results

Based on the results presented in Table 3-2, it can be seen that a substantial number of LPRSA locations have sediment toxicity test results significantly different from negative control results. Figure 3-2 shows the distributions of negative control analyses outcomes in the LPRSA. Negative controls performed adequately, indicating that the laboratory cultures were healthy. Based on these results, it can be concluded that LPRSA sediments are toxic relative to clean, controlled sediment conditions (i.e., laboratory negative controls).



Toxicity test type

Estuarine	*Hyalella* Biomass	*Ampelisca* Biomass (no data)	
	Hyalella Survival	*Ampelisca* Survival	
Freshwater	*Hyalella* Biomass	*Chironomus* Biomass	
	Hyalella Survival	*Chironomus* Survival	

T-test result
- Significant
- Not significant

- × Remediated location[a]
- Dredge zone

- River mile
- Bridge
- Abutment
- Dock
- Mudflat
- Gravel with fines
- LPRSA

0 0.25 0.5 Miles

0 0.25 0.5 0.75 Kilometers

[a]One sample was collected in the Lister Ave. dredge area at RM 2.8 and two were collected in the RM 10.9 dredge area.

Mudflat areas for ecological receptors are those areas where the river bottom slope is ≤ 6° and the depth is ≥ -2 ft MLLW, based on the 2007 CPG bathymetric survey.

Figure 3-2. Results from comparisons of LPRSA toxicity test data to negative control results

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Although this result provides some information regarding the magnitude of toxicity observed in LPRSA locations, it does not provide a practical means of comparison for natural sediment conditions. Negative control conditions are intended to ensure that toxicity test organisms are sufficiently healthy to perform adequately during toxicity testing. LPRSA sediment is different from negative control sediments in terms of both contamination by hazardous substances and the sediment matrix. Therefore, it is unclear whether significant differences from the negative control are caused by hazardous substances.

Comparison of LPRSA data to natural reference sediments (with relatively low contamination) (Section 3.3) provides another basis for comparison that partly controls for sediment chemistry and matrix effects.[20]

3.2.2 Reference area data

LPRSA sediment toxicity test results were compared with the toxicity test data from USEPA-approved reference areas to evaluate whether LPRSA sediment poses a potential risk to the benthic community (in excess of reference conditions). The reference area toxicity data represents a baseline level of toxicity for the LPRSA in the absence of the release of site-related hazardous substances. The use of reference conditions in evaluating LPRSA toxicity test data is consistent with USEPA guidance on the use of reference data in ERAs (USEPA 2002, 2005a).

Data from the three reference areas selected by USEPA (i.e., Jamaica Bay, Mullica River/Great Bay, and the area above Dundee Dam) were compiled for comparison with sediment toxicity test data from the LPRSA (Appendix B, Tables B3-1 and B4-1). Mullica River freshwater sediment toxicity data could not be used because they were generally not co-located with benthic invertebrate community data, or because they were based on a non-comparable test organism (i.e., *A. abdita*, which was not tested in the area above Dundee Dam). A sediment toxicity LOE analysis could therefore not be conducted for the LPRSA using Mullica River freshwater as a reference for comparison.

Although reference conditions are ideally non-toxic due to the relatively low level of historical chemical pollution in reference areas, there is the possibility for unforeseen toxicity in such areas. For this reason, reference area datasets were limited using sediment toxicity screening criteria (Section 2.3.1; Appendix B, Tables B3-3 and B4-3). Samples were also screened based on sediment chemical concentrations to eliminate the potential for contamination in accepted reference sediment samples.

[20] Physical and geochemical differences between LPRSA sediment and reference area sediment are still possible. There is no single "best" approach to evaluating sediment, which is why a WOE approach is generally taken to characterizing sediment quality. Additional context is presented in Appendix L (Attachment L3), which shows a comparison between reference area and LPRSA sediment chemistry and physical characteristic data.

3.2.2.1 Estuarine reference data

Sediment toxicity data from Jamaica Bay (representing urban estuarine habitat conditions) and the Mullica River/Great Bay estuary (representing non-urban estuarine habitat conditions) were compiled from regional datasets for comparison with LPRSA *A. abdita* toxicity test results (Appendix L, Table L8). Location selection, sample collection, and analyses were performed by others (USEPA 2011). Because regional reference data were not available to evaluate LPRSA *H. azteca* toxicity test results, toxicity data based on sediment samples collected by CPG in the freshwater area above Dundee Dam were used as a reference dataset for both survival and biomass of *H. azteca* in estuarine toxicity test locations in the LPRSA. The representativeness of data from above Dundee Dam as a reference for the estuarine LPRSA data is discussed in the uncertainty evaluation for the sediment toxicity LOE (Section 3.3.4).

Table 3-3 presents the summary of the Jamaica Bay and Mullica River/Great Bay reference area *A. abdita* toxicity data from acceptable reference locations (i.e., low chemistry and control-normalized survival ≥ 80%) (Appendix B, Tables B3-2 and B3-3). Survival of *A. abdita* in the 35 acceptable Jamaica Bay samples ranged from 80 to 108% of the negative control results, with a mean control-normalized survival of 95.4% (Table 3-3). Survival of *A. abdita* in the 12 acceptable Mullica River/Great Bay samples ranged from 84.4 to 107% of the negative control results, with a mean control-normalized survival of 95.9% (Table 3-3). Additional information regarding the screening of reference area datasets is presented in Appendix B (Table B3-3).

Table 3-3. Summary of the Jamaica Bay *A. abdita* survival data (fraction of control)

Statistic	Jamaica Bay	Mullica River and Great Bay
Sample size	35	12
Minimum	0.800	0.844
Maximum	1.08	1.07
Mean	0.945	0.959
Standard deviation	0.0617	0.069
5th percentile[a]	0.845	0.852
10th percentile	0.872	0.861
25th percentile	0.906	0.917
Median	0.950	0.984
75th percentile	0.990	1.00
90th percentile	1.01	1.01
95th percentile	1.03	1.04

Source: USEPA (2016); NOAA (2013)

[a] Reference envelope threshold for *A. abdita* survival.

NOAA – National Oceanic and Atmospheric Administration

USEPA – US Environmental Protection Agency

3.2.2.2 Freshwater reference data

CPG collected sediment samples within a 4-mile section of the Passaic River above Dundee Dam (representing a freshwater reference area) for comparison with LPRSA *H. azteca* and *C. dilutus* toxicity test results. Table 3-4 provides a summary of the toxicity data for acceptable locations from the area above Dundee Dam.

Table 3-4. Summary of toxicity reference data (fraction of control) from the area above Dundee Dam

Statistic	*C. dilutus*		*H. azteca*	
	Survival	Biomass[a]	Survival	Biomass[b]
Sample size	5	5	5	5
Minimum	0.82	0.775	0.76	0.355
Maximum	0.96	1.03	0.94	0.471
Mean	0.89	0.845	0.82	0.421
Standard deviation	0.053	0.103	0.075	0.048
5th percentile[a]	0.83	0.778	0.76	0.362
10th percentile	0.84	0.781	0.76	0.369
25th percentile	0.87	0.791	0.77	0.389
Median	0.90	0.813	0.81	0.434

Statistic	*C. dilutus*		*H. azteca*	
	Survival	Biomass[a]	Survival	Biomass[b]
75th percentile	0.91	0.819	0.83	0.454
90th percentile	0.94	0.944	0.90	0.464
95th percentile	0.95	0.986	0.92	0.468

Source: Windward (2018a)

[a] Biomass for *C. dilutus* was calculated as the total AFDW for each replicate divided by the initial number of organisms introduced into the test chamber minus the number of organisms that either emerged or pupated during the test.

[b] Biomass for *H. azteca* was calculated as the total weight for each replicate divided by the initial number of organisms introduced into the test chamber.

AFDW – ash-free dry weight

Windward – Windward Environmental LLC

3.2.3 Comparison with reference data

The LPRSA estuarine and freshwater toxicity test data were compared with reference area data following the steps outlined in Section 2.1 and shown in Figure 2-1. The Mann-Whitney U test was used to determine whether LPRSA toxicity data were significantly different from those in the reference areas (Appendix B, Table B6-2b), and a location-by-location analysis of differences was conducted by comparing toxicity data from LPRSA locations to the 5th percentile reference values (Appenix B, Tables B3-6, B3-8, and B4-5). Ultimately, comparisons between LPRSA toxicity data and 5th percentiles of reference area toxicity datasets were used to assign weight to the sediment toxicity LOE in the WOE analyses (Section 6.1 of the BERA main text). Section 2.3.1 provides additional rationale for the use of reference area data.

3.2.3.1 Mann-Whitney U Test

Results of the Mann-Whitney U test comparison of LPRSA sediment toxicity test data to reference area sediment toxicity datasets are provided in Table 3-5.

Table 3-5. Results of the statistical analysis comparing the LPRSA toxicity test data with reference data

Area of Interest	Toxicity Test Type	Is there a significant difference between LPRSA and reference area data? (Mann-Whitney U Test, alpha = 0.05)[a]				
		C. dilutus Survival (% of Control)	*C. dilutus* Biomass (% of Control)[b]	*H. azteca* Survival (% of Control)	*H. azteca* Biomass (% of Control)[c]	*A. abdita* Survival (% of Control)
Jamaica Bay	estuarine	nt	nt	nt	nt	**yes; p = 1.20E-06**
Mullica River and Great Bay	estuarine	nt	nt	nt	nt	no; p ~ 1.00
Above Dundee Dam	estuarine[d]	nt	nt	no; p = 4.08E-01	no; p = 9.27E-01	nt
Above Dundee Dam	freshwater	no; p = 3.97E-01	no; p = 5.22E-02	**yes; p = 2.32E-02**	no; p = 7.28E-01	nt

Note: Mann-Whitney U test conducted as a one-tailed test (alpha = 0.05). An "nt" value is reported for tests that were not conducted for the given test species in the given reference area and/or in the LPRSA.

Bold text indicates significant result ($p < 0.05$).

[a] Based on the Mann-Whitney U Test.

[b] Biomass for *H. azteca* was calculated as the total weight for each replicate divided by the initial number of organisms introduced into the test chamber.

[c] Biomass for *C. dilutus* was calculated as the total AFDW for each replicate divided by the initial number of organisms introduced into the test chamber minus the number of organisms that either emerged or pupated during the test.

[d] *H. azteca* test results from the estuarine LPRSA could not be compared to estuarine reference area data; instead, they were compared to freshwater *H. azteca* test results from above Dundee Dam.

AFDW – ash-free dry weight
LPRSA – Lower Passaic River Study Area
nt – not tested

Based on the results of Mann-Whitney U tests (Table 3-5), it appears that survival of *H. azteca* was significantly lower in freshwater LPRSA sediments than above Dundee Dam, and survival of *A. abdita* was significantly lower in estuarine LPRSA sediments than in Jamaica Bay. Biomass of *H. azteca* in acceptable reference samples from above Dundee Dam ranged from only 36 to 47% of the negative control, indicating a fairly substantial growth effect on this test species that was unrelated to LPRSA-specific chemical contamination.

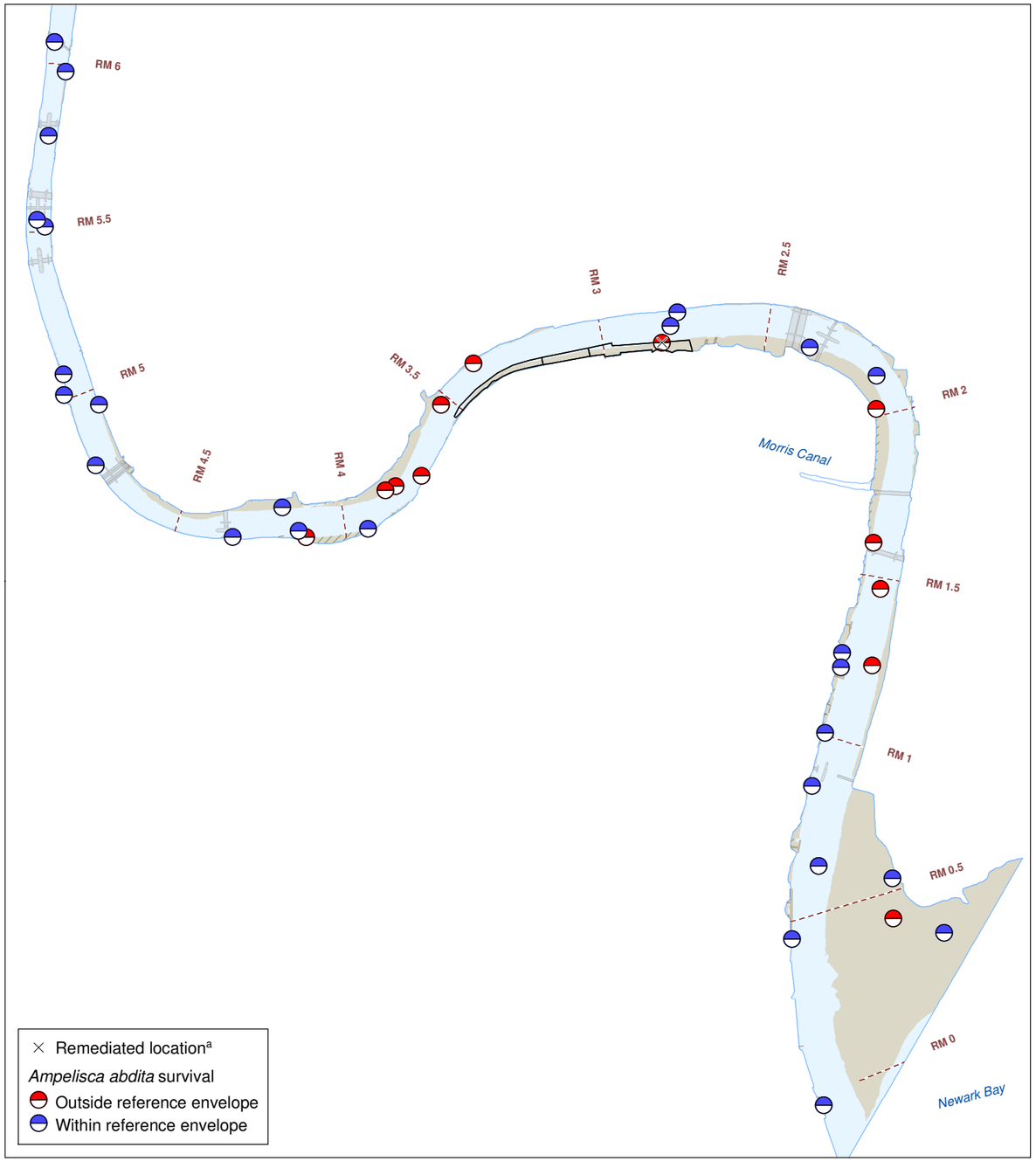
3.2.3.2 LPRSA locations below the reference area envelope

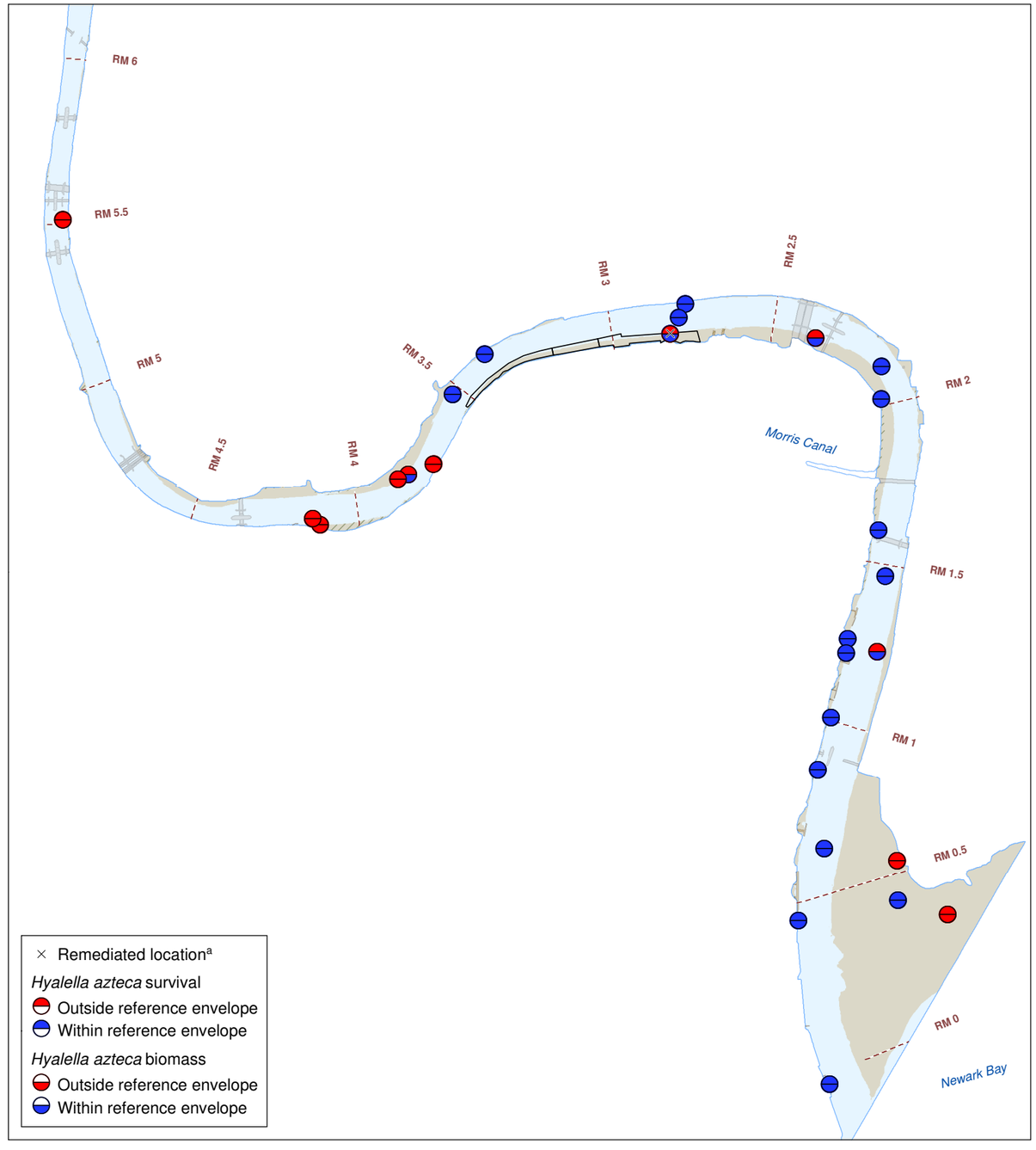
The result of location-by-location comparisons between LPRSA and reference area sediment toxicity data are summarized in Figures 3-3 to 3-6 and Table 3-6. Results are also provided in tabular form in Appendix B (Tables B3-6, B3-8, and B4-5).

Figures 3-3 and 3-6 present LPRSA locations outside the reference thresholds for *A. abdita* survival based on urban and non-urban reference datasets, respectively. Figure 3-3 presents LPRSA locations exceeding the reference thresholds for *H. azteca* survival and biomass from tests conducted for estuarine toxicity test locations (interstitial water salinity ≥ 5 ppt). Figure 3-4 presents LPRSA locations exceeding the

reference thresholds for *C. dilutus* survival and biomass. Figure 3-5 presents LPRSA locations exceeding the reference thresholds for *H. azteca* survival and biomass from tests conducted for freshwater toxicity test locations (interstitial water salinity < 5 ppt).

Table 3-6 provides a summary by toxicity test endpoint of LPRSA sediment toxicity test results below the 5th percentiles of reference values (i.e., reference envelope thresholds).





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N

0 0.25 0.5 Mile

Dredge zone
Bridge
Abutment
Dock
River mile
Mudflat
Gravel with fines
LPRSA

[a]One sample was collected in the Lister Ave. dredge area at RM 2.8

Note: LPRSA *A. abdita* toxicity data were compared to urban reference data from Jamaica Bay; LPRSA *H. azteca* toxicity data were compared to urban reference data from the area of the Passaic River above Dundee Dam.

Mudflat areas for ecological receptors are those areas where the river bottom slope is ≤ 6° and the depth is ≥ -2 ft MLLW, based on the 2007 CPG bathymetric survey.

Figure 3-3. *Ampelisca abdita* survival and *Hyalella azteca* survival and biomass results from estuarine LPRSA locations compared with urban reference data
Appendix P. Lower Passaic River Study Area
Baseline Ecological Risk Assessment
FINAL

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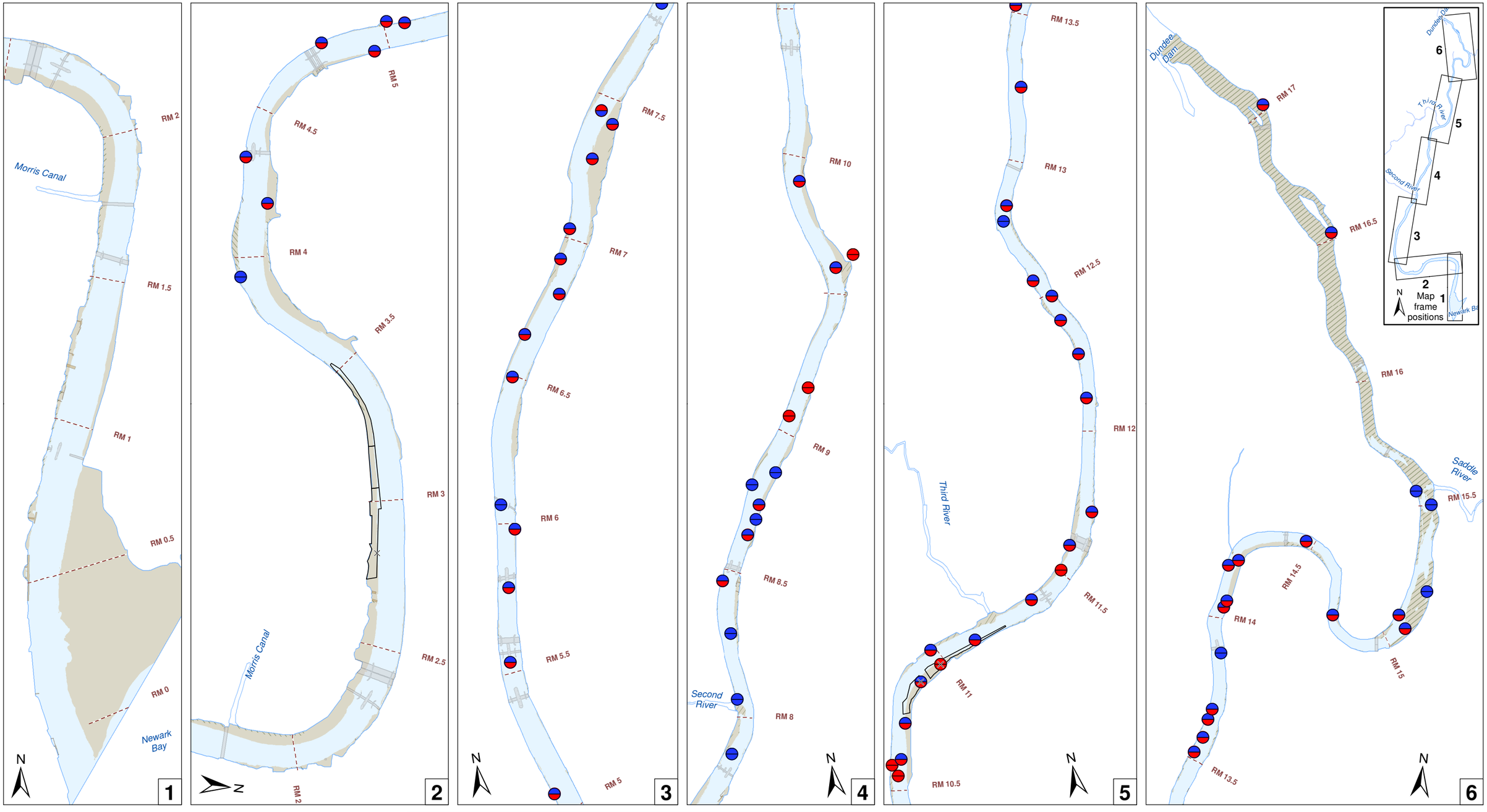


Chironomus dilutus survival
- Outside reference envelope
- Within reference envelope

Chironomus dilutus biomass
- Outside reference envelope
- Within reference envelope

- Remediated location[a]
- Dredge zone
- Bridge
- Abutment
- Dock

- River mile
- Mudflat
- Gravel with fines
- LPRSA

0 0.25 0.5 Miles

0 0.25 0.5 0.75 Kilometers

[a]Two samples were collected in the RM 10.9 dredge area.

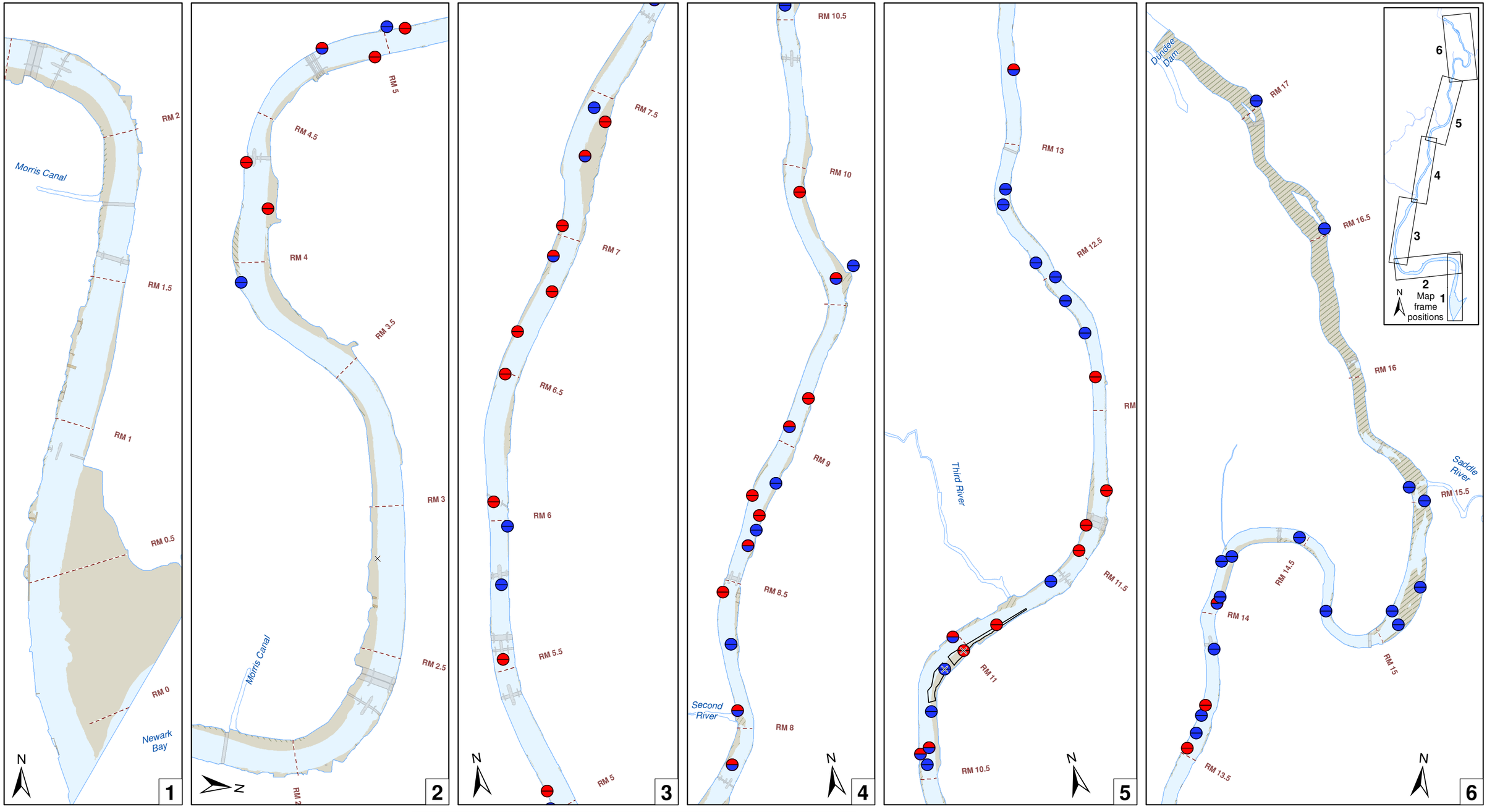
Note: Data are control-normalized; reference data are from the area of the Passaic River above Dundee Dam.

Mudflat areas for ecological receptors are those areas where the river bottom slope is ≤ 6° and the depth is ≥ -2 ft MLLW, based on the 2007 CPG bathymetric survey.

Figure 3-4. *Chironomus dilutus* survival and biomass results compared with urban reference data

Appendix P. Lower Passaic River Study Area Baseline Ecological Risk Assessment

FINAL



Hyalella azteca survival
- Outside reference envelope
- Within reference envelope

Hyalella azteca biomass
- Outside reference envelope
- Within reference envelope

- Remediated location[a]
- Dredge zone
- Bridge
- Abutment
- Dock

- River mile
- Mudflat
- Gravel with fines
- LPRSA

0 0.25 0.5 Miles

0 0.25 0.5 Kilometers

Windward environmental LLC

[a]Two samples were collected in the RM 10.9 dredge area.

Note: Data are control-normalized; reference data are from the area of the Passaic River above Dundee Dam.

Mudflat areas for ecological receptors are those areas where the river bottom slope is ≤ 6° and the depth is ≥ -2 ft MLLW, based on the 2007 CPG bathymetric survey.

Figure 3-5. *Hyalella azteca* survival and biomass results from freshwater LPRSA locations compared with urban reference data

Appendix P. Lower Passaic River Study Area Baseline Ecological Risk Assessment

FINAL

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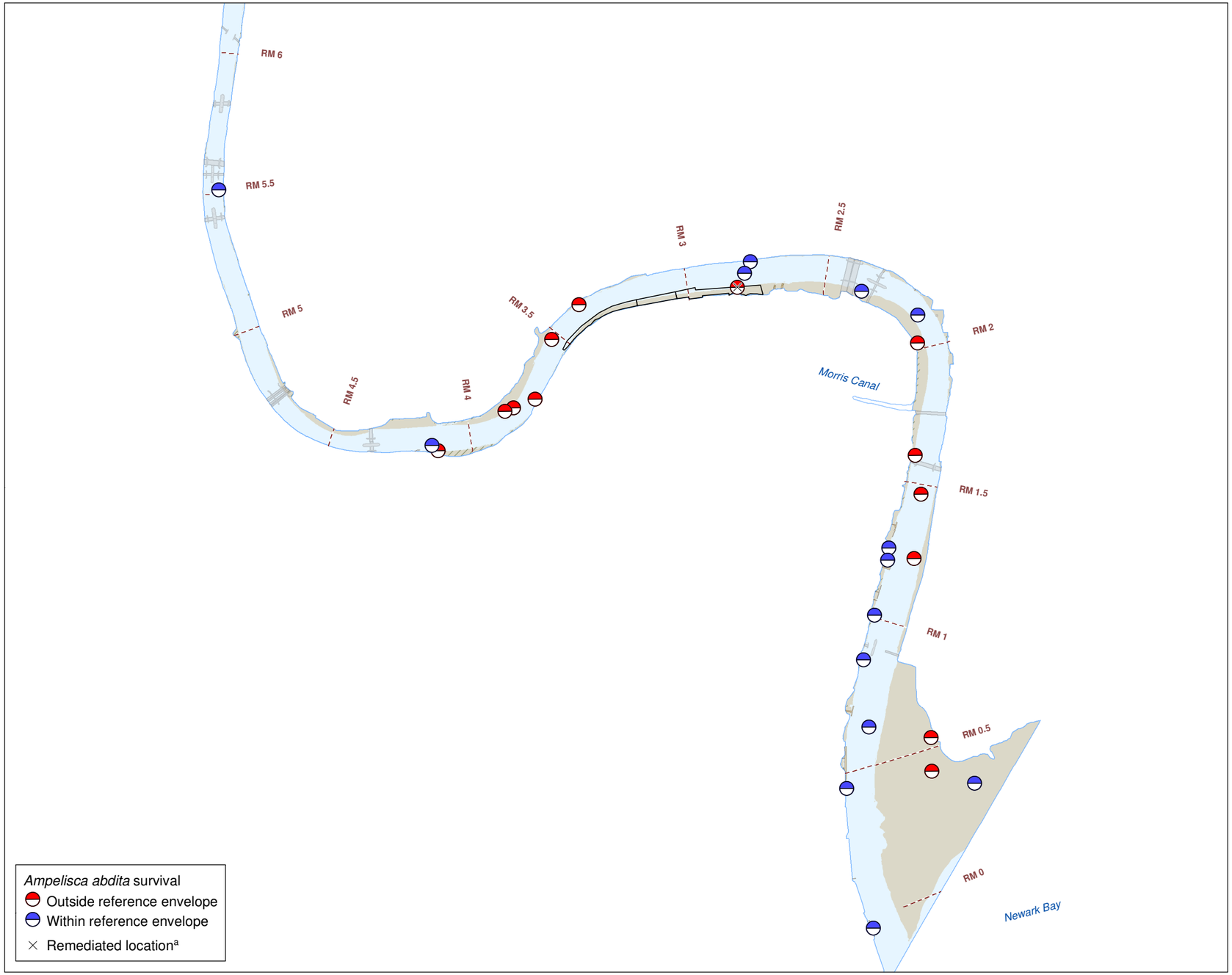

[a]One sample was collected in the Lister Ave. dredge area at RM 2.8

Note: Data are control-normalized; reference data are from Mullica River and Great Bay.

Mudflat areas for ecological receptors are those areas where the river bottom slope is ≤ 6° and the depth is ≥ -2 ft MLLW, based on the 2007 CPG bathymetric survey.

Figure 3-6. *Ampelisca abdita* survival results from estuarine LPRSA locations compared with non-urban reference data
Appendix P. Lower Passaic River Study Area
Baseline Ecological Risk Assessment
FINAL

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Table 3-6. Summary of comparison of sediment toxicity test results to reference data

Parameter	Toxicity Test Endpoints Less than Reference Envelope Threshold (5th Percentile Value)							
	Estuarine[a]				Freshwater[a]			
	A. abdita		*H. azteca*		*C. dilutus*		*H. azteca*	
	Survival		Survival	Biomass	Survival	Biomass	Survival	Biomass
Total no. of locations in LPRSA	27		27	27	71	71	71	71
Reference dataset	Jamaica Bay (urban)	Mullica River and Great Bay (non-urban)	area above Dundee Dam (urban)[b]	area above Dundee Dam (urban)[b]	area above Dundee Dam (urban)[b]	area above Dundee Dam (urban)[b]	area above Dundee Dam (urban)[b]	area above Dundee Dam (urban)[b]
Reference envelope threshold (% of control)	84.5	85.2	75.8	36.2	82.7	77.8	75.8	36.2
Range of LPRSA results (% of control)	15–97		7–99	3–96	16–106	5–104	16–105	6–115
No. of locations below reference envelope threshold	12 (44%)	13 (48%)	11 (41%)	7 (26%)	13 (18%)	58 (82%)	39 (55%)	27 (38%)

[a] "Estuarine" and "freshwater" in Table 3-6 refer to types of sediment toxicity tests defined by interstitial salinity at the time of sediment sampling for toxicity tests. Estuarine is defined as salinity < 5 ppt, and freshwater is defined as salinity ≥ 5 ppt.

[b] *H. azteca* sediment toxicity data were not available from Jamaica Bay; estuarine toxicity data from *H. azteca* (salinity-acclimated) tests were compared with reference data from the area above Dundee Dam.

LPRSA – Lower Passaic River Study Area

ppt – parts per thousand

3.2.4 Summary of results

Based on the comparison of LPRSA data to reference area data, it appears that there is sediment toxicity at many LPRSA locations; however, sediment toxicity does not always correspond between endpoints (e.g., toxicity for both species) at the same location (Figures 3-3 to 3-6; Appendix B, Tables B3-6, B3-8, and B4-5). LPRSA toxicity exceeding the reference envelope was prevalent for *C. dilutus* biomass (82% of freshwater locations) and *H. azteca* and *A. abdita* survival; *H. azteca* survival exceeded the urban reference conditions at 41 and 55% of estuarine and freshwater LPRSA locations, respectively, and *A. abdita* survival exceeded the urban and non-urban estuarine reference conditions at 44 and 48% of estuarine LPRSA locations, respectively. However, neither *C. dilutus* biomass nor *A. abita* survival in the LPRSA were significantly less than their respective reference area condition (Table 3-5). Similarly, *H. azteca* survival was not significantly less in estuarine LPRSA locations than in the area above Dundee Dam, although *H. azteca* survival in freshwater LPRSA locations was significantly less than survival in the area above Dundee Dam.

The *C. dilutus* survival endpoint was the least sensitive among those tested, with only 18% of freshwater LPRSA locations outside of the reference envelope. Biomass of *H. azteca* (for both endpoints and both toxicity test location types) was moderate; 26 and 38% of LPRSA estuarine and freshwater locations were outside the reference envelope, respectively. The *H. azteca* biomass endpoint was low in acceptable urban freshwater reference locations (36 to 47% of negative control), suggesting that this endpoint was influenced by urban stressors. Based on these rates, it appears that LPRSA sediments are often toxic relative to reference conditions, but that uncertainty still exists for this LOE due to inconsistent results across toxicity test endpoints.

3.2.5 Uncertainties in comparison to reference data

A variety of uncertainties associated with the benthic sediment toxicity tests could affect the evaluation of test data and the interpretation of comparisons to reference data.

- There are inherent uncertainties associated with using a reference condition approach to characterize risk. Namely, reference areas are not exactly similar to the LPRSA in terms of biological community or physical and chemical conditions. Reference conditions are used as a model for relatively uncontaminated conditions, but models are imperfect. Regardless, reference conditions provide a reasonable baseline for comparison, assuming that the reference areas are similar enough to the LPRSA. The data used are described in more detail in Section 4.2 of the main BERA text; also, Appendix L, Attachment L3, provides figures that show similarities and differences between LPRSA and reference area habitat-variable and chemical concentration datasets.

- It is unclear whether the screened reference area datasets accurately reflect the reference condition. Specifically, screening reference area data using sediment chemistry and sediment toxicity criteria impose a potentially unreasonable constraint on data acceptability. The resulting datasets may not capture the full range of possible sediment toxicity test results that should be expected under urbanized conditions (but for the LPRSA-specific release of hazardous materials).
- It is unclear whether the comparison of LPRSA data to data from a non-urban reference area (Mullica River and Great Bay) is relevant for characterizing risks in the LPRSA. Comparison to non-urban conditions fails to incorporate potential stressors that are generally observed in urban settings and are expected to influence the LPRSA benthic invertebrate community. Examples of these stressors include altered hydrology due to channelization and flood controls and increased organic and inorganic inputs from CSOs, SWOs, road waste, and permitted industrial discharges.
- The screening of acceptable freshwater reference locations is presented in Appendix B, Tables B4-2 and B4-3. Only five samples from above Dundee Dam were deemed acceptable, adding substantial uncertainty to the quantification of a reference condition.
- Inconsistencies in the observed sensitivities of invertebrate species may be due, in part, to different sensitivities to specific chemicals (Phipps et al. 1995). However, some research has shown that *C. dilutus* and *H. azteca* have similar sensitivities (Ingersoll et al. 2015).
- In order to minimize the possibility of changing the characteristics of the sediment, the sediment was not sieved in the field or by the laboratory staff prior to toxicity testing. As a result, indigenous organisms present in the samples that were too small to be observed without a microscope may not have been removed prior to testing. Thus, the survival and biomass endpoint results could have been influenced by the presence of potential predators and/or non-test organism amphipods or chironomids. If such organisms had been visible during toxicity testing, it is assumed that the toxicology laboratory would have noted the presence of non-test organisms.
- The grain size of the sediment samples collected from the LPRSA varied from fine to coarse, and typically benthic organisms have been shown to have a preference for a particular sediment particle size (USEPA and USACE 1998; Relyea et al. 2012). However, both *H. azteca* and *C. dilutus* tolerate a wide range of sediment grain sizes and types of organic matter (ASTM 2010; USEPA 2000), and are appropriate test organisms for use when the grain sizes of the sediment sample vary widely. To evaluate the effect of grain size on the survival of *C. dilutus* and *H. azteca*, concurrent toxicity tests were conducted using a range

of grain sizes (i.e., 50, 60, and 70% artificially prepared coarse substrate). The results of the tests indicated that the survival of both *C. dilutus* and *H. azteca* in the coarser substrates was similar to that of the negative control.[21]

- Because the sediment samples were collected over an eight-week time period, the toxicity testing was conducted in batches to avoid prolonging the time between sample collection and testing. Differences in test organisms and slight differences in test conditions could have introduced some uncertainty into interpretation of the results. Control-normalized toxicity values were reported in this assessment in order to minimize potential uncertainty caused by batch variability.
- *A. abdita* cannot be cultured in the laboratory and must be field collected (Windward 2018b). Thus, the health of the population is dependent on conditions at the collection site, and consistent results are not guaranteed. The uncertainty associated with using field-collected organisms was reduced by following strict QA/QC procedures, such as the requirement to meet the 90% negative control survival test acceptability criterion.
- An uncertainty associated with the *C. dilutus* biomass endpoint stems from the large number of larvae that pupated and emerged during the tests, indicating that the specimens might have been older than 2nd to 3rd instar at the start of testing. To prevent pupation, Mount (2011) advocated for a maximum starting weight criterion of 0.12 mg ash-free dry weight (AFDW) per organism. This weight is less than the starting weights in tests with LPRSA and above Dundee Dam sediments, which ranged from 0.062 to 0.401 mg/organism, with an average of 0.25 mg/organism across batches and study areas. Unfortunately, this recommendation was not available until after the standard testing protocols had been approved for use, and after all toxicity tests for LPRSA sediment had been completed. The standard protocols used to test toxicity in sediments from the LPRSA and above Dundee Dam were approved by USEPA, and were consistent with current guidance at that time. Moreover, the test organism supplier (Aquatic Bio Systems Inc., Fort Collins, Colorado) and test facility (EnviroSystems Inc., Hampton, New Hampshire) verified that the larvae were either 2nd or 3rd instar, and that they were not expected to emerge until after the 10-day exposure.

  The number of pupated and emerged individuals was counted and recorded on laboratory bench sheets, which were attached to the laboratory reports appended to both the fall 2009 sediment toxicity data report for the LPRSA (Windward 2018b) and the 2012 sediment toxicity reference data report for above Dundee Dam (Windward 2018a). Appendix K, Table K5, provides the

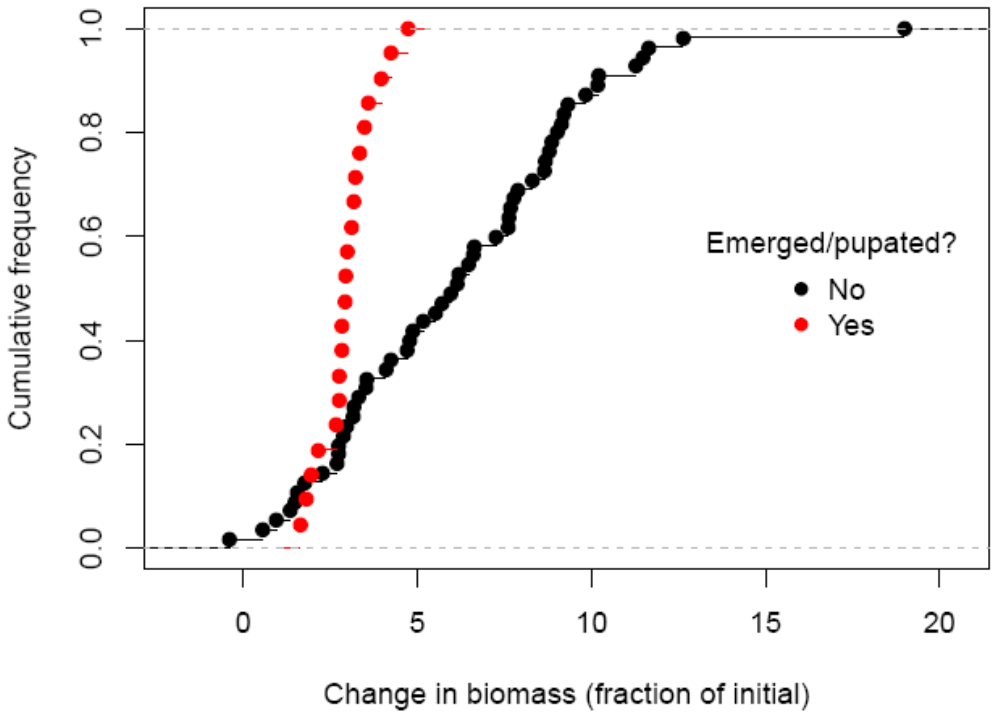
[21]A test evaluating the grain size for *A. abdita* was not conducted as a specific, separate test during this investigation.

combined number of pupated and emerged individuals for each replicate of the LPRSA tests, and Appendix L, Attachment L1, Table L8 provides the same type of data for the area above Dundee Dam. *C. dilutus* biomass was calculated by dividing the ash-free dry weight of surviving larvae for each replicate by the initial number of organisms introduced into the test chamber minus the number of organisms that either emerged or pupated during the test.[22]

C. dilutus toxicity testing using LPRSA sediment samples was conducted in five batches. Organisms emerged or pupated in two of the five batches. In Batch 5, pupation/emergence occurred in 55 of 120 replicates for 13 of the 15 samples, including the laboratory control. In Batch 6, pupation/emergence occurred in 23 of 112 replicates for 8 of the 14 samples, including the laboratory control. In tests for above Dundee Dam sediments, pupation/emergence occurred in 111 of 200 replicates for 24 of the 25 samples, including the laboratory control. As many as seven organisms emerged in each replicate (across all samples and the two study areas).

Figure 3-7 shows the distribution of mean biomass change (as a percent of the starting mass) in LPRSA sediment toxicity tests. On average, growth was significantly lower on samples in which there was emergence/pupation (in any replicate).

[22] It would have been inappropriate to include the weight of *C. dilutus* pupae and adults in the biomass calculations because mass was lost during pupation. It would also have been inappropriate to divide the weight of surviving *C. dilutus* larvae by the initial number of organisms without excluding the number that pupated or emerged; that would have decreased the calculated biomass as if the pupated/emerged organisms had died.



Note: change in biomass is reported as (final biomass – initial biomass)/initial biomass

Figure 3-7. Change in *C. dilutus* biomass in tests with LPRSA sediments and negative controls

- The use of *H. azteca* with sediment representative of estuarine locations may have introduced uncertainty into the interpretation of the results. Although *H. azteca* is tolerant of brackish conditions (USEPA 2000) and can be tested using sediment with a salinity of up to 15 ppt (ASTM 2010), organisms may be under more stress at a salinity of 10 ppt (even after a period of acclimation to a higher salinity) than those tested in freshwater.
- The use of a static-renewal exposure condition when testing *A. abdita* may have introduced a slight positive bias to results (relative to a static exposure) due to volatilization of certain hazardous substances. This is expected to be a minor point of uncertainty because volatile chemicals were often below detectable concentrations in LPRSA sediments (Appendix K).
- Comparisons of LPRSA toxicity test results to negative control results did not account for matrix effects (e.g., the influence of sediment grain size, TOC, or other sediment characteristics); it cannot be stated with certainty whether significant differences in toxicity between LPRSA sediments and negative control sediments were caused by hazardous substances, by other non-chemical factors, or by a combination of chemical and non-chemical factors.
- Interlaboratory variability may have caused discrepancies between, for example, the sensitivities of test species used to develop different datasets.

Reasons for these discrepancies may be related to the use of different laboratories with different technicians, exposure conditions, and laboratory cultures. This uncertainty was most pronounced for the comparison of *A. abdita* data from estuarine LPRSA toxicity locations (i.e., samples with ≥ 0.5 ppt interstitial salinity) to data from Jamaica Bay or Mullica River and Great Bay. Similar comparisons of LPRSA *H. azteca* and *C. dilutus* data to data from above Dundee Dam were less uncertain because a single laboratory conducted all the tests. Control normalization of test results partly addressed this uncertainty by standardizing toxicity test results to the health of laboratory cultures (reflected by negative control result) at the time of sampling. Similarly, test acceptability criteria were met by both laboratories, indicating that each test culture was healthy. Test acceptability criteria are assumed to have been met by the laboratory(ies) used to test reference area sediment toxicity on behalf of USEPA REMAP (1998, 2002a, 1993).

- Source cultures for *H. azteca* and *C. dilutus* tested in LPRSA sediments (fall 2009) likely differed from those tested for *H. azteca* and *C. dilutus* in sediments from above Dundee Dam (fall 2012). Control-normalization of test results partly addressed this uncertainty. Similarly, test acceptability criteria were met during both testing events, indicating that each test culture was healthy.
- Mullica River freshwater data was not used to characterize risk, because the only toxicity test used on sediments in that area tested *A. abdita*, and these tests were not directly comparable to freshwater LPRSA tests with *H. azteca* or *C. dilutus*. Survival of *A. abdita* in Mullica River freshwater samples (after screening data at a mPECq of 0.5 and survival result of 75% of negative control)[23] ranged from 85.1 to 89.5% of negative control survival; survival of *H. azteca* (another amphipod) above Dundee Dam ranged from 76 to 94% of control, and survival of *H. azteca* in the LPRSA ranged from 45 to 100%. These ranges were similar.

3.2.5.1 Quantitative analysis of uncertainty

A quantitative analysis was conducted to address several key uncertainties associated with the sediment toxicity LOE. The methods and results are presented below.

Methods

The 1–90th percentile minimum significant difference (MSD) threshold method, developed by Phillips et al. (2001), was used to evaluate LPRSA sediment toxicity data relative to negative control results for the quantitative analysis of uncertainty. The 1–90th percentile MSD is a site-specific threshold that corresponds to a single toxicity test value below which there is a 90% probability of discerning a statistically significant

[23] One sample from the Mullica River freshwater dataset was removed during the toxicity test screen; *A. abdita* survival in that sample was 41.8% of negative control.

difference between a LPRSA toxicity test value and the negative control. The 1–90th percentile MSD was calculated according to the approach outlined by Phillips et al. (2001), modified to use the MSD calculation presented by Zar (1996). The analysis is presented in Appendix B, Table B5-2. Specifically, a MSD value was calculated for every LPRSA sample (using the raw replicate test data) and the batch-specific negative control data. The MSD for each sample was then normalized to the batch-specific negative control, and the 90th percentile of all control-normalized MSDs was calculated. The 1-90th percentile MSD threshold was simply 1 minus the 90th percentile MSD. Control-normalized toxicity test results from LPRSA locations could thus be compared to the calculated threshold.

For quantitative comparison to reference area data, extreme reference area sediment toxicity test results were removed rather than imposing toxicity screening criteria (Appendix B, Tables B3-3, B4-3). This approach was intended to capture the natural variability in the reference area SQT datasets while excluding data that are clearly different than the rest of the reference area data. This is discussed in more detail in Section 2.3.1 and shown in Figure 2-1.

Results

For the Jamaica Bay dataset, *A. abdita* survival in the 45 samples that passed both the initial chemical screening step and the toxicity screen of extreme values (Appendix B, Table B3-3) ranged from 38 to 108% of the negative control results, with a mean control-normalized survival of 87.5% (Table 3-7).

Table 3-7. Summary of *A. abdita* survival data (fraction of control) from reference areas for the quantitative analysis of uncertainty

Statistic	Jamaica Bay	Mullica River and Great Bay
Sample size	45	12
Minimum	0.380	0.844
Maximum	1.08	1.07
Mean	0.875	0.959
Standard deviation	0.158	0.069
5th percentile[a]	0.558	0.852
10th percentile	0.688	0.861
25th percentile	0.811	0.917
Median	0.930	0.984
75th percentile	0.980	1.00
90th percentile	1.01	1.01
95th percentile	1.03	1.04

Source: USEPA (2016); NOAA (2013)

Note: Three samples were removed from the Jamaica Bay dataset based on best professional judgment regarding low *A. abdita* survival values (i.e., JB310, JB315, and JB366). Survival in sediments from those locations ranged from 1.1 to 11% of the negative control. No values were identified as extreme using the three-times-IQR approach described in Section 2.3.4.1.

[a] Reference envelope threshold for A. abdita survival.

IQR – interquartile range
NOAA – National Oceanic and Atmospheric Administration
USEPA – US Environmental Protection agency

The dataset from above Dundee Dam for the quantitative analysis of uncertainty was substantially larger than that used to analyze the sediment toxicity LOE; the dataset for the uncertainty analysis consisted of 15 samples (an increase from 5 samples). No extreme low toxicity values were identified or removed based on sediment toxicity (Appendix B, Table B4-3). Table 3-8 presents the summary of sediment toxicity data from above Dundee Dam for the quantitative analysis of uncertainty.

Table 3-8. Summary of toxicity reference data (fraction of control) from the area above Dundee Dam for the quantitative analysis of uncertainty

Statistic	*C. dilutus*		*H. azteca*	
	Survival	Biomass[a]	Survival	Biomass[b]
Sample size	15	15	15	15
Minimum	0.71	0.637	0.49	0.261
Maximum	0.96	1.03	0.94	0.518
Mean	0.83	0.758	0.75	0.398
Standard deviation	0.068	0.0894	0.11	0.084
5th percentile[c]	0.72	0.668	0.60	0.263
10th percentile	0.73	0.686	0.65	0.272
25th percentile	0.80	0.712	0.68	0.335
Median	0.83	0.742	0.73	0.414
75th percentile	0.87	0.783	0.82	0.463
90th percentile	0.90	0.816	0.88	0.482
95th percentile	0.92	0.881	0.91	0.497

Source: Windward (2018a)

Note: no extreme values were observed or removed from the dataset from above Dundee Dam.

[a] Biomass for *C. dilutus* was calculated as the total AFDW for each replicate divided by the initial number of organisms introduced into the test chamber minus the number of organisms that either emerged or pupated during the test.

[b] Biomass for *H. azteca* was calculated as the total weight for each replicate divided by the initial number of organisms introduced into the test chamber.

[c] Statistic was the reference envelope threshold value for *C. dilutus* and *H. azteca* toxicity test endpoints used for the quantative analysis of uncertainty (of the sediment chemistry LOE).

AFDW – ash-free dry weight
LOE – line of evidence
Windward – Windward Environmental LLC

MSD values were calculated for each LPRSA sediment sample and toxicity test endpoint (Appendix B, Table B5-2). The 1–90th percentile MSD threshold for each

endpoint is provided in Table 3-9. Thresholds range from 70 to 81% of the negative control data. Table 3-10 summarizes the results of the 1–90th percentile MSD analysis and Figure 3-8 shows the distribution of results in the LPRSA. The results suggest that LPRSA sediments relative to the negative control are less toxic than suggested by comparisons of those data using t-tests (Section 3.2.1).

Table 3-9. 1–90th percentile MSD values for LPRSA toxicity tests

Toxicity Test Endpoint	1–90th Percentile MSD (% of Control)[a]
C. dilutus biomass	71
H. azteca biomass	73
C. dilutus survival	74
H. azteca survival	70
A. abdita survival	81

[a] 1–90th percentile MSD thresholds are based on control-normalized MSDs; this is to facilitate comparison of LPRSA data (also control normalized) to MSD-based thresholds.

LPRSA – Lower Passaic River Study Area

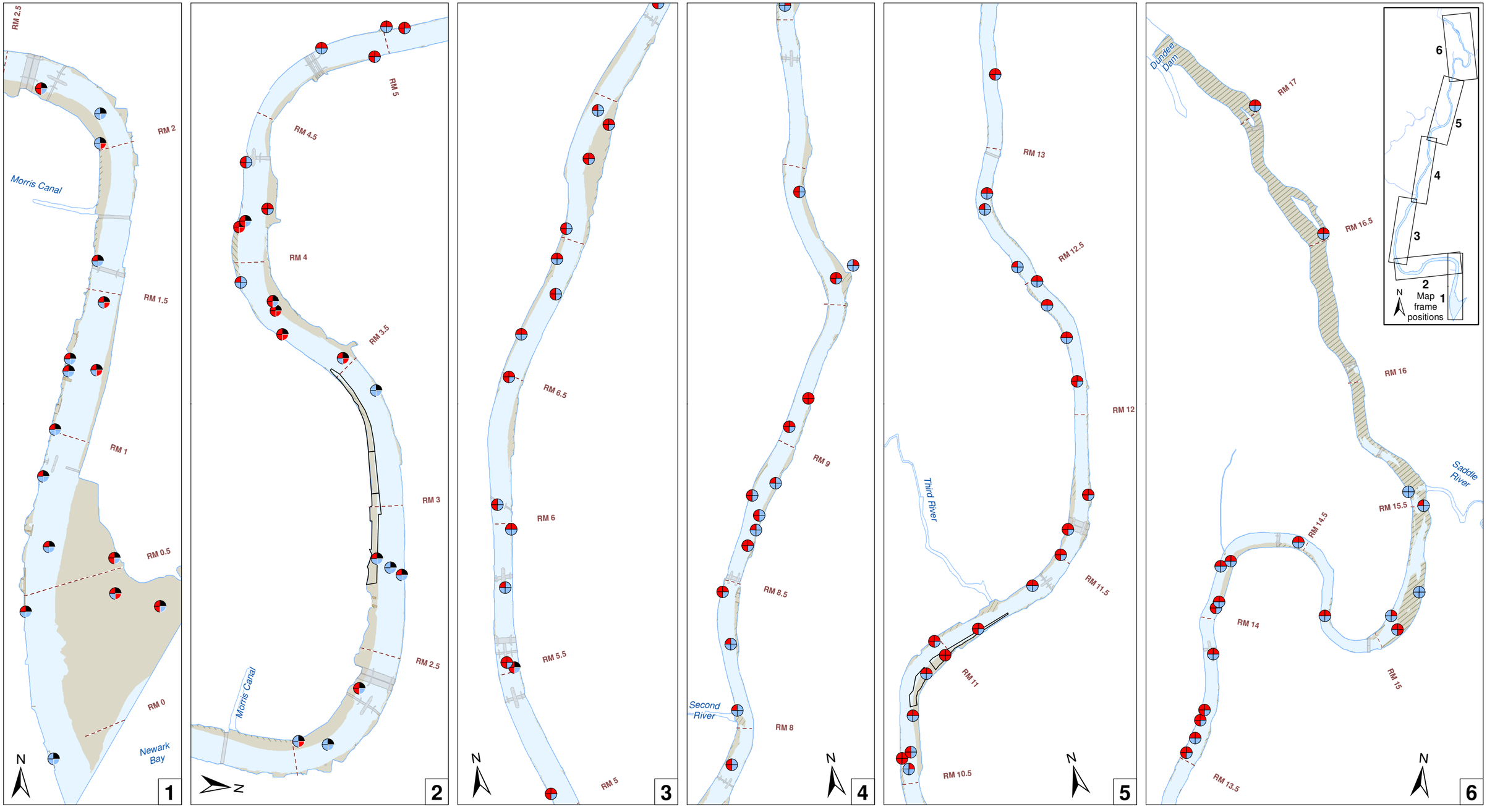
MSD – minimum significant difference

Table 3-10. Summary of comparison of LPRSA toxicity test results to 1–90th percentile MSD thresholds

Toxicity Test Endpoint	No. of LPRSA Locations	No. of LPRSA Locations Below 1–90th Percentile MSD
C. dilutus biomass	71	50 (70%)
C. dilutus survival	71	5 (7%)
H. azteca biomass	98	88 (90%)
H.azteca survival	98	43 (44%)
A. abdita survival	27	8 (30%)

LPRSA – Lower Passaic River Study Area

MSD – minimum significant difference



Toxicity test type

Estuarine	*Hyalella* Biomass	*Ampelisca* Biomass (no data)
	Hyalella Survival	*Ampelisca* Survival
Freshwater	*Hyalella* Biomass	*Chironomus* Biomass
	Hyalella Survival	*Chironomus* Survival

MSD result
- < 1-90th percentile
- ≥ 1-90th percentile

× Remediated location[a]

Dredge zone

- River mile
- Bridge
- Abutment
- Dock
- Mudflat
- Gravel with fines
- LPRSA

0 0.25 0.5 Miles

0 0.25 0.5 0.75 Kilometers

[a]One sample was collected in the Lister Ave. dredge area at RM 2.8 and two were collected in the RM 10.9 dredge area.

Mudflat areas for ecological receptors are those areas where the river bottom slope is ≤ 6° and the depth is ≥ -2 ft MLLW, based on the 2007 CPG bathymetric survey.

Figure 3-8. Results from comparisons of LPRSA toxicity test data to negative control results for the quantitative analysis of uncertainty

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The results of the Mann-Whitney U tests comparing LPRSA sediment toxicity data to reference area data (for the quantitative analysis of uncertainty) are presented in Table 3-11 and Appendix B (Tables B6-2c and B6-2d). The results are similar to those of the approach used for the sediment toxicity LOE (Table 3-5; Appendix B, Tables B6-2a and B6-2b), with the exception that *A. abdita* survival is significantly different in the LPRSA than in both Jamaica Bay (urban) and Mullica River/Great Bay (non-urban). The lack of a significant result associated with the LOE approach (Table 3-5) is due not to substantially lower survival, but rather to the small sample size of the reference area dataset developed using the LOE approach (n = 5); median *A. abdita* survival values from each dataset (Tables 3-4 and 3-7) are very similar (i.e., 93 to 98% survival).

Table 3-11. Results of the statistical analysis comparing the LPRSA toxicity test data with reference data for the quantitative analysis of uncertainty

Area of Interest	Toxicity Test Type	Is there a significant difference between LPRSA and reference area data? (Mann-Whitney U Test, alpha = 0.05)[a]				
		C. dilutus **Survival (% of Control)**	***C. dilutus*** **Biomass (% of Control)[b]**	***H. azteca*** **Survival (% of Control)**	***H. azteca*** **Biomass (% of Control)[c]**	***A. abdita*** **Survival (% of Control)**
Jamaica Bay	estuarine	nt	nt	nt	nt	**yes; p = 1.01E-02**
Mullica River and Great Bay	estuarine	nt	nt	nt	nt	**yes; p = 1.73E-04**
Above Dundee Dam	estuarine[d]	nt	nt	no; p = 7.27E-01	no; p = 9.89E-01	nt
Above Dundee Dam	freshwater	no; p = 8.77E-01	no; p = 2.01E-01	**yes; p = 2.87E-02**	no; p = 9.07E-01	nt

Note: Mann-Whitney U test conducted as a one-tailed test, $p < 0.05$. An "nt" value is reported for tests that were not conducted for the given test species in the given reference area and/or in the LPRSA.

Bold text indicates significant result ($p < 0.05$).

[a] Based on the Mann-Whitney U Test.

[b] Biomass for *H. azteca* was calculated as the total weight for each replicate divided by the initial number of organisms introduced into the test chamber.

[c] Biomass for *C. dilutus* was calculated as the total AFDW for each replicate divided by the initial number of organisms introduced into the test chamber minus the number of organisms that either emerged or pupated during the test.

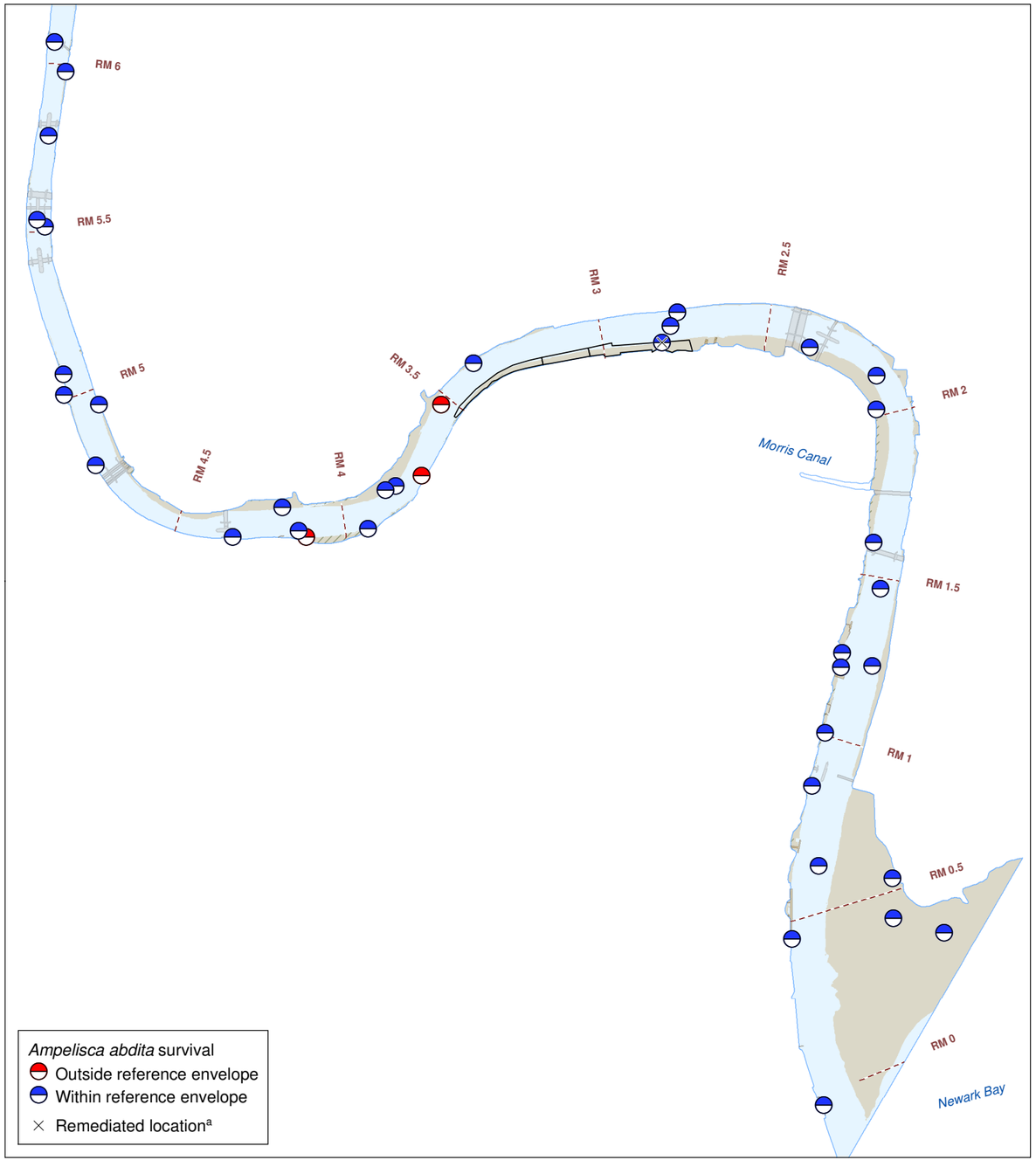
[d] *H. azteca* test results from the estuarine LPRSA could not be compared to estuarine reference area data; instead, they were compared to freshwater *H. azteca* test results from above Dundee Dam.

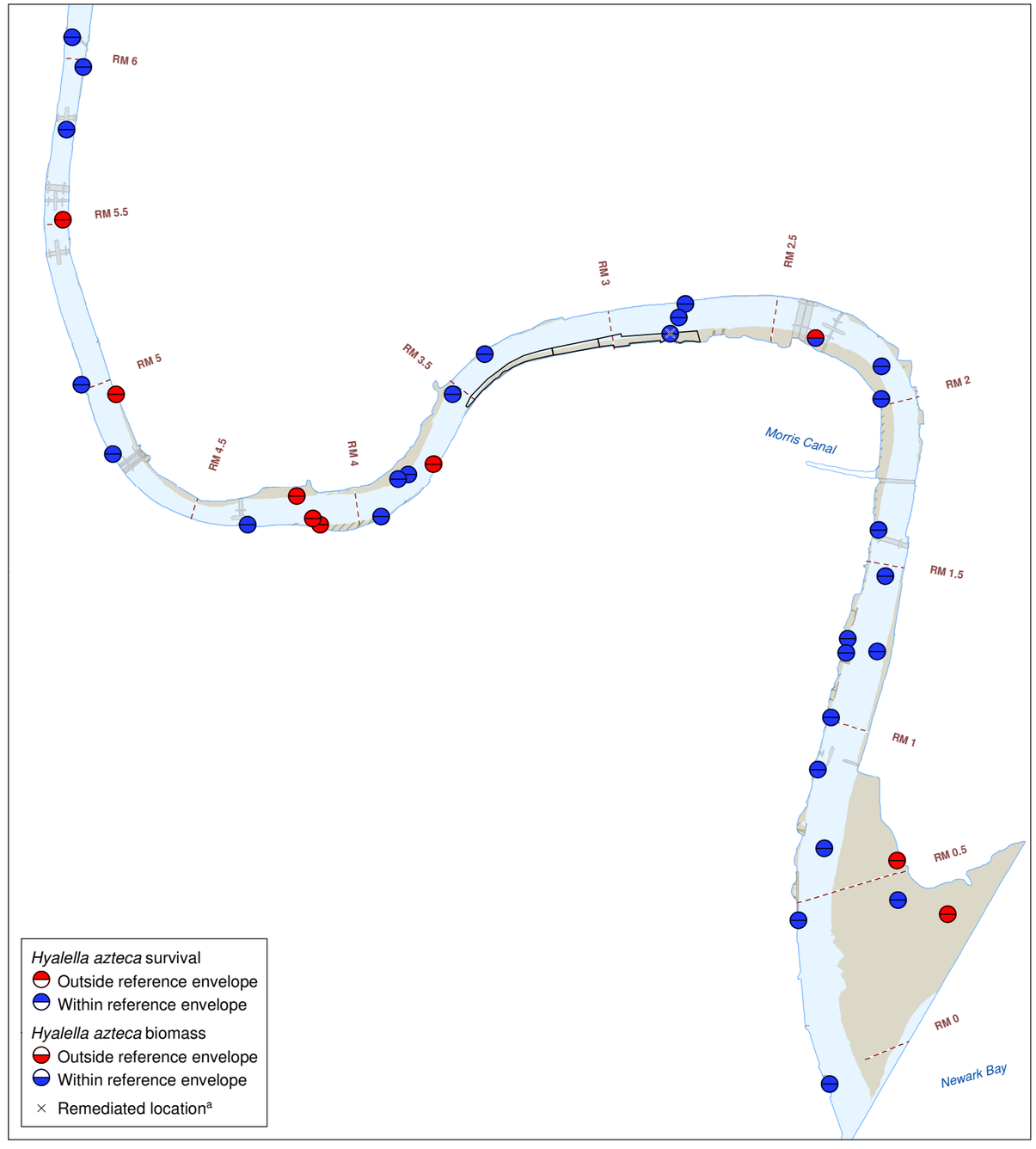
AFDW – ash-free dry weight LPRSA – Lower Passaic River Study Area

nt – not tested

The location-by-location comparisons between sediment toxicity data from LPRSA SQT locations and reference envelope thresholds (for the quantitative analysis of uncertainty) are shown in Figures 3-9 through 3-11 and summarized in Table 3-12. The full analysis is presented in Appendix B, Tables B3-7, B3-9, and B4-6. The quantitative analysis of uncertainty resulted in substantially lower rates of reference envelope exceedance for toxicity test data (Table 3-12). For example, *A. abdita* survival exceeded envelope conditions at only 11% of estuarine LPRSA locations (Table 3-12), compared

to 44% for the LOE approach (Table 3-6). Although *A. abdita* survival exceeded the reference threshold at fewer LPRSA locations based on the quantitative analysis of uncertainty, *A. abdita* survival in the LPRSA was significantly lower than the reference condition (Table 3-11).





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N

0 0.25 0.5 Mile

Dredge zone
Bridge
Abutment
Dock
River mile
Mudflat
Gravel with fines
LPRSA

[a]One sample was collected in the Lister Ave. dredge area at RM 2.8
Note: LPRSA *A. abdita* toxicity data were compared to urban reference data from Jamaica Bay; LPRSA *H. azteca* toxicity data were compared to urban reference data from the area of the Passaic River above Dundee Dam.
Mudflat areas for ecological receptors are those areas where the river bottom slope is ≤ 6° and the depth is ≥ -2 ft MLLW, based on the 2007 CPG bathymetric survey.

Figure 3-9. *Ampelisca abdita* survival and *Hyalella azteca* survival and biomass results from estuarine LPRSA locations compared with urban reference data for the quantitative analysis of uncertainty
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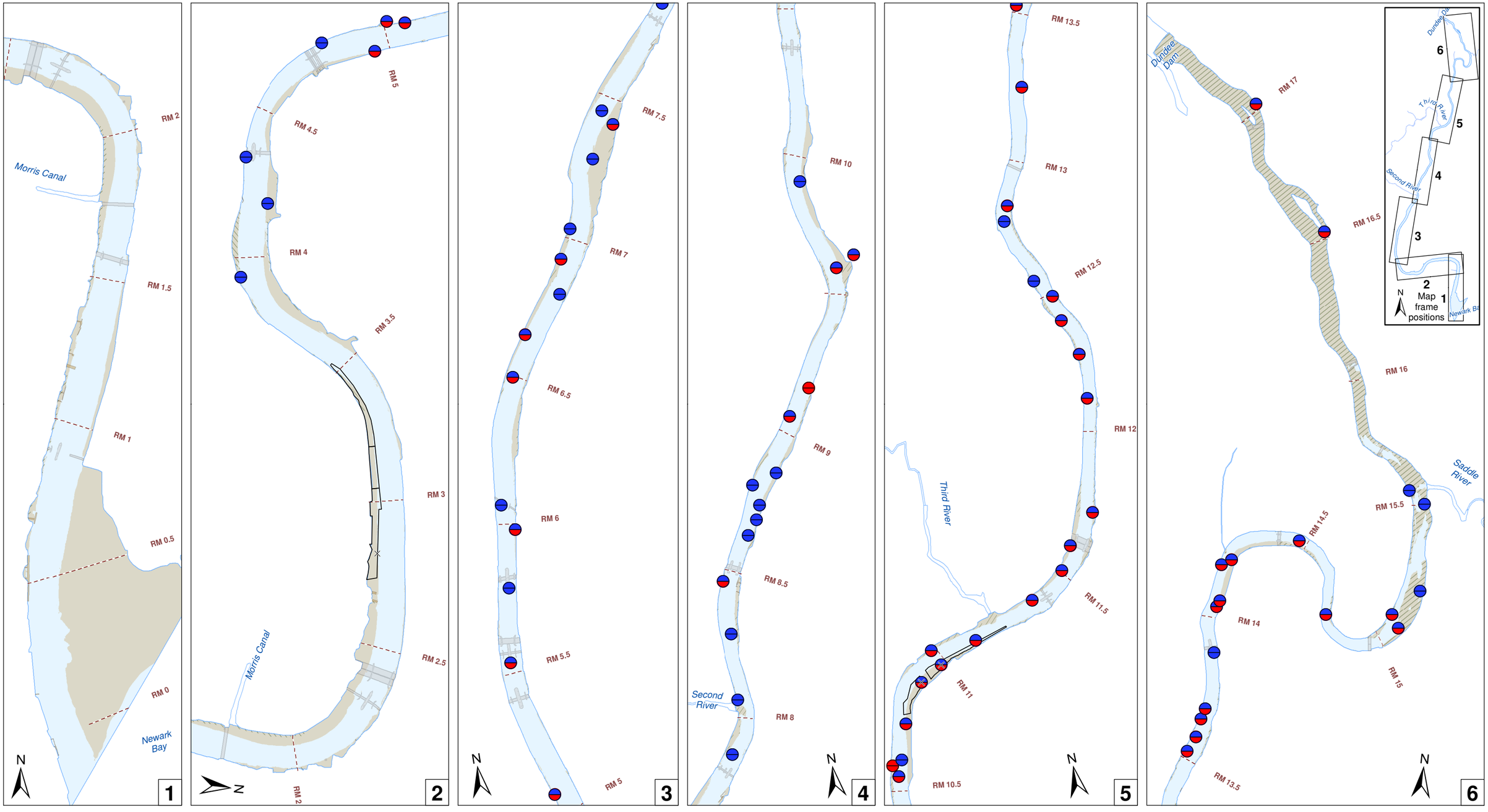

Windward environmental LLC

0 0.25 0.5 Miles

0 0.25 0.5 Kilometers

Chironomus dilutus survival
- Outside reference envelope
- Within reference envelope

Chironomus dilutus biomass
- Outside reference envelope
- Within reference envelope

- Remediated location[a]
- Dredge zone
- Bridge
- Abutment
- Dock

- River mile
- Mudflat
- Gravel with fines
- LPRSA

[a]Two samples were collected in the RM 10.9 dredge area.

Note: Data are control-normalized; reference data are from the area of the Passaic River above Dundee Dam.

Mudflat areas for ecological receptors are those areas where the river bottom slope is ≤ 6° and the depth is ≥ -2 ft MLLW, based on the 2007 CPG bathymetric survey.

Figure 3-10. *Chironomus dilutus* survival and biomass results compared with urban reference data for the quantitative analysis of uncertainty
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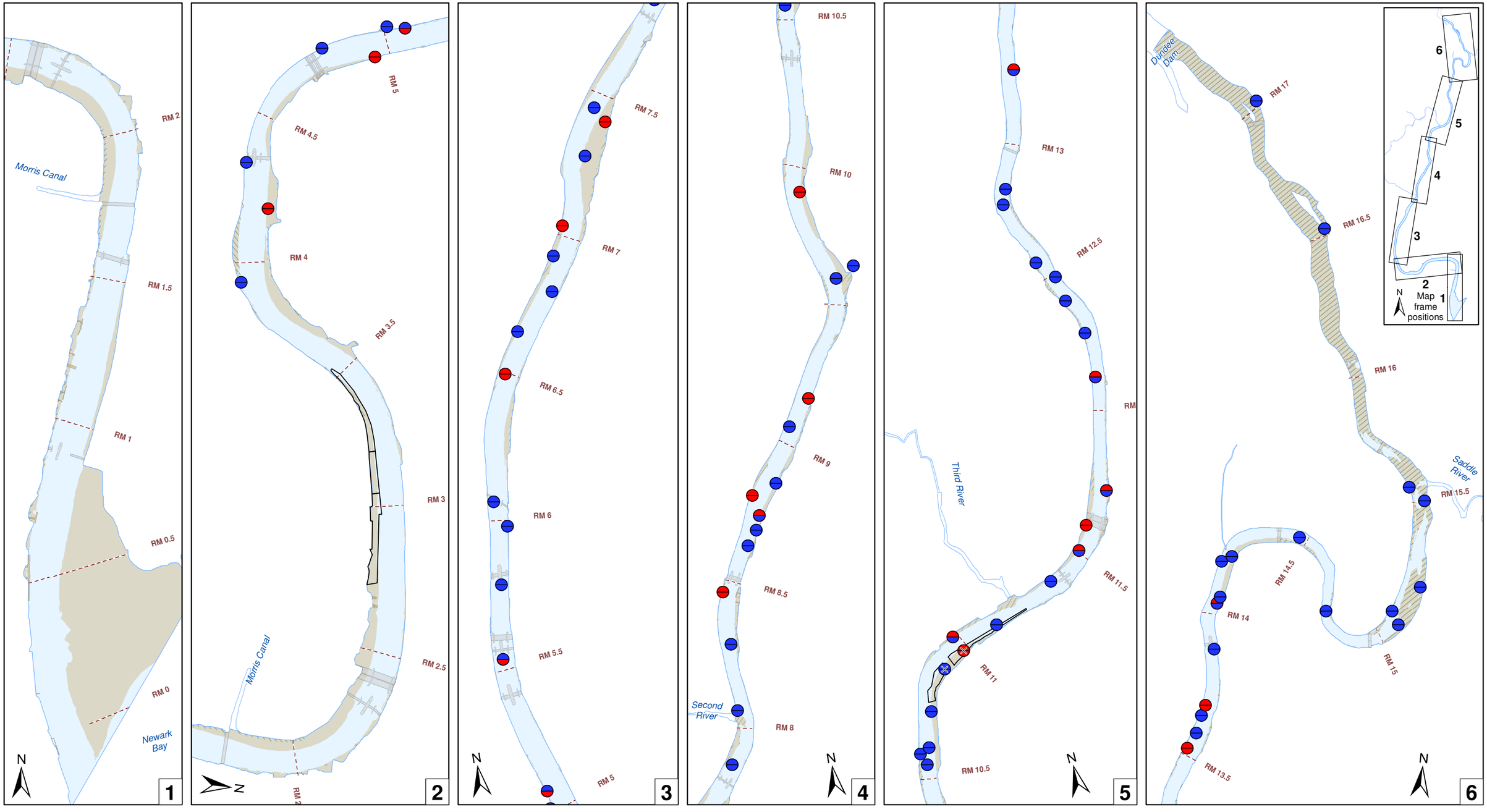

Hyalella azteca survival
- Outside reference envelope
- Within reference envelope

Hyalella azteca biomass
- Outside reference envelope
- Within reference envelope

× Remediated location[a]

Dredge zone

Bridge

Abutment

Dock

River mile

Mudflat

Gravel with fines

LPRSA

[a]Two samples were collected in the RM 10.9 dredge area.

Note: Data are control-normalized; reference data are from the area of the Passaic River above Dundee Dam.

Mudflat areas for ecological receptors are those areas where the river bottom slope is ≤ 6° and the depth is ≥ -2 ft MLLW, based on the 2007 CPG bathymetric survey.

Windward environmental LLC

0 0.25 0.5 Miles

0 0.25 0.5 Kilometers

Figure 3-11. *Hyalella azteca* survival and biomass results from freshwater LPRSA locations compared with urban reference data for the quantitative analysis of uncertainty

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Table 3-12. Summary of comparison of sediment toxicity test results to reference data for the quantitative analysis of uncertainty

Parameter	Toxicity Test Endpoints Less than Reference Envelope Threshold (5th Percentile Value)							
	Estuarine[a]				Freshwater[a]			
	A. abdita		*H. azteca*		*C. dilutus*		*H. azteca*	
	Survival		Survival	Biomass	Survival	Biomass	Survival	Biomass
No. of LPRSA samples	27		27	27	71	71	71	71
Reference dataset	Jamaica Bay (urban)	Mullica River and Great Bay (non-urban)	area above Dundee Dam (urban)[b]	area above Dundee Dam (urban)[b]	area above Dundee Dam (urban)[b]	area above Dundee Dam (urban)[b]	area above Dundee Dam (urban)[b]	area above Dundee Dam (urban)[b]
Reference envelope threshold (% of control)	55.8	85.2	59.8	26.3	72.1	66.8	59.8	26.3
Range of LPRSA results (% of control)	15–97		7–99	3–96	16–106	5–104	16–105	6–115
No. of locations below reference envelope	3 (11%)	13 (48%)	7 (26%)	6 (22%)	2 (3%)	45 (63%)	20 (28%)	15 (21%)

[a] Estuarine and freshwater in Table 3-12 refer to types of sediment toxicity tests defined by interstitial salinity at the time of sediment sampling for toxicity tests. Estuarine is defined as salinity < 5 ppt, and freshwater is defined as salinity ≥ 5 ppt.

[b] *H. azteca* sediment toxicity data were not available from estuarine reference areas; estuarine toxicity data from *H. azteca* (salinity-acclimated) tests were compared with reference data from the area above Dundee Dam.

LPRSA – Lower Passaic River Study Area

ppt – parts per thousand

3.3 SUMMARY

Toxicity tests conducted using LPRSA field-collected sediment measured the effects of exposure to the complex mixture of chemicals, non-chemical stressors, and general physical characteristics of the surface sediment at locations within the LPRSA. The survival endpoints for the amphipods *A. abdita* and *H. azteca* and the chironomid *C. dilutus* are relevant for predicting the health of the benthic community in the LPRSA. The survival of amphipods exposed to field-collected sediment in 10- and 28-day toxicity tests (using *A. abdita* and *H. azteca*, respectively) has been correlated with abundance of amphipods, species richness, and other measures of community structure in the field (Schlekat et al. 1994; Swartz et al. 1994; Long et al. 2001). Using sensitive and representative sediment-dwelling species, sediment toxicity testing can be useful in the evaluation of potential harm to benthic invertebrate communities on a location-by-location basis.

Based on comparisons of LPRSA toxicity test results to negative controls, it appears that LPRSA sediments are generally more toxic than negative control tests conducted using clean, artificially formulated laboratory sediments. Based on these results alone, it is not clear to what degree measured toxicity is caused by hazardous substances in sediments or by a combination of chemical and non-chemical stressors. This lack of clarity is why the characterization of risk in the BERA (using a WOE analysis) incorporated the results of reference area comparisons to LPRSA data rather than negative control comparisons. Negative control performance relative to test acceptability criteria suggested that laboratory cultures were in acceptable health.

The comparison of LPRSA and reference area sediment toxicity test data indicated that LPRSA sediments at many locations were toxic, although toxicity was often inconsistent across species and endpoints at a single location. For example, *C. dilutus* survival, typically a less sensitive endpoint, tended to be similar to reference conditions in most LPRSA sediments tested. Also, sediment toxicity at LPRSA locations was generally not significantly lower than at reference area locations. *A. abdita* and *H. azteca* survival were the most sensitive endpoints tested aside from *C. dilutus* biomass, which, as noted in Section 3.3.4, is more uncertain than other toxicity endpoints. *H. azteca* survival (at freshwater locations) was the only statistically significant sediment toxicity test endpoint (i.e., significantly lower survival than the freshwater urban reference conditions above Dundee Dam).

4 Sediment Chemistry Line of Evidence

Sediment chemical concentrations in LPRSA SQT samples were assessed in the screening-level ecological risk assessment (SLERA) (Appendix A) using sediment criteria provided by USEPA Region 2, consistent with USEPA (2001b) guidance, to select chemicals of potential ecological concern (COPECs). However, as agreed with USEPA, an SQT approach (that included the evaluation of a sediment chemistry LOE) was used to evaluate benthic invertebrate risks in the LPRSA (Section 6 of BERA main text). COPECs determined in Appendix A are acknowledged in Section 4.3.4, but the sediment chemistry LOE conducted herein was not used to determine preliminary contaminants of concern (COCs), as is generally done.[24] Rather, an assessment of the sediment chemistry LOE was used to establish weights in the WOE analysis that was used to characterize chemical risks to LPRSA benthic invertebrates (Section 6.1 of the main BERA text).

The following analyses were conducted as part of the sediment chemistry LOE:

- A bivariate correlation analysis between LPRSA sediment chemical concentrations and toxicity test response and benthic community metric data was conducted.
- A multivariate analysis was conducted to compare habitat variables and ordinations of sediment chemistry data to toxicity test response and benthic community metric data. The relative influence of habitat and chemistry on benthic response variables was evaluated.
- LPRSA sediment chemistry data from SQT locations were compared with logistic regression model-based T20 (20% probability of observing toxicity) and T50 (50% probability of observing toxicity) values.
- Detailed uncertainties are discussed in sections describing simultaneously extracted metals (SEM) and acid volatile sulfide (AVS) (USEPA 2005b), total PAHs (equilibrium partitioning [EqP] approach) (USEPA 2003), and the ability of the T20 and T50 criteria or mean-quotient thresholds to accurately predict site-specific sediment toxicity in the LPRSA. Additional points of uncertainty are also noted (including an acknowledgement of COPECs evaluated directly or indirectly as part of this LOE).

As part of the uncertainty analysis, a quantitative analysis of the approach to screening LPRSA sediment chemistry data was conducted. In the quantitative analysis, mean ERM and PEC quotients from LPRSA SQT locations were compared to mean quotient thresholds that were derived using reference area mean ERM or PEC quotients and

[24] Preliminary COCs are determined for surface water and benthic invertebrate tissue LOEs in Sections 6.2 and 6.3 (and reported in Section 6.4) of the BERA main text.

reference area sediment toxicity test data. More detail is provided in the following sections. Sediment chemistry LOE data tables are provided in Appendix B, Tables B1 (bivariate correlation), B2 (multivariate approach), and B7 (sample-by-sample screen of LPRSA data against T20/T50 or mean quotient thresholds).

4.1 METHODS

4.1.1 Bivariate correlation analysis

Bivariate correlation analyses were performed to assess the strength of relationships between dry weight sediment chemistry (concentrations for single chemicals) and benthic response variables (i.e., single toxicity test endpoints or benthic community metrics). The results of the correlation analyses were used to inform conclusions from the WOE analysis outlined in Section 6.1 of the BERA main text. Correlation analyses were conducted using R (R Core Team 2016), and the results are presented in Appendix B, Table B1.

Correlation analyses are used to determine whether two variables are related in a significant way, such that a consistent change in one variable corresponds with a consistent change in another. This is useful when comparing co-located sediment chemistry and benthic response data to assess the assumption that chemical concentrations lead to sediment toxicity and impairment of benthic communities. However, correlation analysis does not prove that a causative relationship exists between two variables.

The nonparametric Spearman rank correlation test was used because the Shapiro-Wilk test of normality ($\alpha = 0.05$)[25] indicated that few of the distributions of chemical concentrations or biological endpoint datasets were normally distributed. This was verified visually using histograms. Spearman rank correlations are used to determine if significant monotonic relationships exist between the ranks of two variables.[26] A monotonic relationship is one in which an increase in one variable consistently corresponds to an increase (direct relationship) or decrease (inverse relationship) in the second variable, the simplest example being a linear relationship. Many non-linear relationships (e.g., sigmoid or logistic dose-response curves) are also monotonic. Spearman rank correlation is a straightforward statistical method that has been used

[25] Tests of normality were conducted using Addinsoft™ XLSTAT software, Version 2012.3.04. Spearman rank correlation analyses were conducted using R programming (2015, Version 3.2.2, `rcorr` function from `Hmisc` package). Pairwise deletion of missing values was used so that as many data as possible were included in each correlation.

[26] This differs from the parametric Pearson product-moment correlation, which assumes a linear correlation between two variables. Dose-response relationships (in controlled studies) are classicly characterized using non-linear models (e.g., log-logistic or sigmoid curves), so the Pearson product-moment correlation method is expected to be of limited use for evaluating chemical-toxicological relationships.

to evaluate sediment chemistry and benthic response datasets collected in several other water bodies (Anderson et al. 2001; Breneman et al. 2000; Canfield et al. 1994).

The strength of the monotonic relationship between ranks of two paired variables is described by the Spearman rank correlation coefficients (r values). Coefficient values range from -1 (perfect negative relationship) to 1 (perfect positive relationship). Greater absolute values of r indicate stronger (negative or positive) monotonic relationships. Values closer to 0 indicate weak relationships.

There is a high likelihood that correlation analysis, when run many times, will result in a significant correlation between two variables that is not truly significant.Multiple Spearman rank correlation analyses were performed, introducing uncertainty in correlation results, specifically the increased probability of making a type II error (false positive). In order to account for this uncertainty, the Spearman rank correlation analysis was run both with and without Bonferroni correction. Bonferroni correction is used to reduce type II errors by dividing the selected significance value (alpha = 0.05) by the number of comparisons being made (i.e., 104 for the site-wide analysis and 72 for the tidal freshwater analysis).[27] Bonferroni correction increases the likelihood of type I errors (false negatives) by setting a stringent threshold for determining statistical significance. By presenting the results of Spearman rank correlations both with and without Bonferroni correction (Section 4.2.1), uncertainties associated with type I/II errors in significant correlation are addressed. Correlation test results that remain significant after Bonferroni correction (of the significance threshold alpha) have high a certainty of true correlatedness.

Prior to analysis, USEPA Region 2 provided CPG with two lists of COPECs to evaluate using correlation analysis: one for LPRSA data from the tidal freshwater zone and one for site-wide LPRSA data (Table 4-1).

[27] The number of comparisons is based on the number of COPECs identified in Table 4-1 multiplied by the number of benthic response variables available in the respective dataset (13 variables site wide and 12 in tidal freshwater).

Table 4-1. Reduced COPEC lists used for Spearman rank correlation analyses

Tidal Freshwater COPEC List	Site-wide LPRSA COPEC List
Total chlordane	Lead
Phenol	Mercury
Total PAHs	Zinc
Bis-(2-ethylhexyl) phthalate	Total LPAHs
Total DDx	Total HPAHs
Total PCB Congeners	Bis-(2-ethylhexyl) phthalate
	Total DDx
	Total PCB Congeners

Note: Table was provided by USEPA Region 2 to CPG (USEPA 2015b).

COPEC – chemical of potential ecological concern
CPG – Cooperating Parties group
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
HPAH – high-molecular weight polycyclic aromatic hydrocarbon
LPAH – low-molecular-weight polycyclic aromatic hydrocarbon
LPRSA – Lower Passaic River Study Area
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
USEPA – US Environmental Protection Agency

4.1.2 Multivariate analysis

Multivariate statistics were applied to LPRSA data in an effort to evaluate potential relationships among sediment chemical concentrations, habitat conditions, and measureable benthic responses.[28] Principal component analysis (PCA), exploratory factor analysis (EFA), and multiple linear regression (MLR) were used in sequence to evaluate relationships among multiple chemical variables, habitat conditions, and benthic response variables (i.e., sediment toxicity test endpoints and infaunal community metrics). The multivariate statistical analyses described herein were conducted in R (R Core Team 2016), and results are presented in Appendix B, Table B2.

4.1.2.1 Multivariate datasets

To account for data constraints and address uncertainty, two approaches were taken to establish sediment chemistry datasets for multivariate analyses. This resulted in two parallel analyses, which are qualitatively compared in Section 4.2.2. Data constraints arose because, if there were missing sediment chemistry data for any variable, multivariate output could not be generated for a sample with missing values; there were many missing sediment chemistry values or variables in the reference area datasets (excepting data from above Dundee Dam). Additionally, log-transformed

[28] Relationships found using multivariate statistics are correlative but not necessarily causative.

data are typically used to conduct PCAs with variables with right-skewed (e.g., lognormal) distributions, but logarithms cannot be calculated for zero. A subset of the Jamaica Bay dataset (i.e., 1998 sampling event) included large numbers of non-detected values that were reported as zero, so these samples were omitted to allow for log-transformation of the sediment chemistry data. Chemistry data were also centered (to the mean) and scaled (to units of standard deviation).

The intent of the first multivariate dataset and associated analyses (hereafter referred to as Method 1) was to incorporate a reasonably large number of COPEC variables into the PCA while maintaining a large amount of reference area samples. This was accomplished by selecting all COPECs for which there were data in all of the LPRSA or reference area SQT datasets. COPECs were then screened out if they had > 5% missing data across all samples, < 50% detection frequency across all samples or < 25% detection frequency within regional reference datasets (i.e., Jamaica Bay, Mullica River freshwater, and Mullica River and Great Bay), and/or 100% missing data in regional reference datasets. Also, to reduce redundancy, only total DDx (sum of all six dichlorodiphenyltrichloroethane [DDT] isomers [2,4′-dichlorodiphenyldichloroethane (DDD), 4,4′-DDD, 2,4′-dichlorodiphenyldichloroethylene (DDE), 4,4′-DDE, 2,4′-DDT and 4,4′-DDT]) was included, rather than other sums of DDT isomers. Similarly, total PAHs were excluded to reduce redundancy with individual PAH analytes. The screening step resulted in a reasonably large COPEC subset (n = 30 analytes) with chemistry data representing all reference area datasets (and the LPRSA).[29] The 30 analytes were primarily composed of individual metals, PAHs, and organochlorine pesticides (i.e., Dieldrin, alpha-Chlordane, total DDx, and hexachlorobenzene). Due to data constraints, total PCBs, phenol, and bis-(2-ethylhexyl) phthalate—all of which were included in USEPA's correlation analysis subset (Table 4-1)—were excluded from the Method 1 dataset.

The intent of the second multivariate dataset and associated analyses (hereafter referred to as Method 2) was to focus on the subset of COPECs identified by USEPA in its statistical guidance for correlation analysis (Table 4-1) (excepting phenol, which was never detected in LPRSA SQT samples, nor measured in regional reference datasets). The result of this approach was a focus of the multivariate analysis on key COPECs of interest, including total PCBs, total PAHs, and bis-(2-ethylhexyl) phthalate, which were not included in the Method 1 dataset. However, data limitations for the

[29] This included (after removing incomplete records) 97 LPRSA samples, 24 samples from above Dundee Dam, 56 samples from Jamaica Bay, 15 samples from Mullica River and Great Bay, and 4 samples from Mullica River freshwater. No effort was made to pre-screen the reference area datasets for acceptability (e.g., using a chemical screening threshold) prior to conducting multivariate statistics (as was done in Sections 2 and 3 to establish reference conditions).

selected COPECs resulted in the removal of most reference area data; only the reference dataset from above Dundee Dam was retained in the Method 2 dataset.[30]

4.1.2.2 PCA and EFA

Principal Component Analysis

PCA is used to reduce many variables to a small subset of independent variables called principal components (PCs), each of which accounts for a certain portion of the overall variance of the original data. Each PC represents a major gradient in the original dataset, such that a group of highly correlated variables is best described by one PC, while other sets of correlated variables (uncorrelated with the first group) are better described by other PCs. Per USEPA guidance, PCA was used in the analysis herein only to estimate the percent of total variance explained by each PC, which was related to an output of PCA called eigenvalues.[31] PCs were generated in such a way that their eigenvalues were ordered from the first to the last PC (accounting for decreasing amounts of variance). The number of PCs needed to cumulatively account for 90 to 95% of the total variance was determined, and that number was used to guide EFA.

Exploratory Factor Analysis

EFA is a multivariate statistical approach that is conceptually similar to PCA in that it can be used to reduce variables to a small subset of independent variables (i.e., factors), but EFA has some subtle conceptual and mathematical differences. Most notably, EFA handles variance by parsing "common variance" and "unique variance," which are distinguished as variance associated with multiple variables (e.g., chemical analytes) and unexplainable variance specific to each variable, respectively. PCA creates PCs that incorporate both types of variance. Conceptually, EFA and PCA differ in that EFA attempts to create hypothetical "latent variables," which are assumed to exist but may not be directly measurable. Examples of latent variables could be heavy metal concentration or PAHs as composites of chemical analyte data, or enrichment composed of TOC, percent fine-grained sediment, and nutrient concentrations. Subsequent analysis (i.e., confirmatory factor analysis) can be used to test whether variables are associated with a hypothetical latent variable, although this did not occur for the analysis described herein.

Several important statistics are generated when conducting EFA: eigenvalues, loading values, and scores. Eigenvalues are described briefly in the previous section, and loading values and scores are described below.

[30] This includes (after removing incomplete records) 97 LPRSA samples and 24 samples from above Dundee Dam.

[31] The percent variance explained by a PC is equal to its squared eigenvalue, divided by the sum of squared eigenvalues of all PCs.

Loading values describe the strength of associations between original variables (e.g., sediment chemistry data) and factors. Highly correlated variables are expected to have high absolute loading values (closer to 1 or -1) for the same factor, whereas uncorrelated variables are likely to have higher loading values on different factors. Loading values are integral to the interpretation of factor scores, because loading values characterize the latent variables that are described by each factor in terms of the original data. Chemicals with high absolute loading values are closely associated with the factors. Chemicals with positive loading values have factor scores that increase with increasing chemical concentrations, and the converse is also true. In order improve the interpretability of EFA results, loading values can be "rotated" using various methods. Rotating factors alters the loadings of chemicals on factors, ideally improving factor interpretation. The orthogonal rotation method "varimax" is used to rotate factors and improve EFA results interpretability.

As noted, factors are independent variables, and factor scores are the individual data that compose those variables. Factor scores can be used in virtually any manner in which other continuous variables are used (e.g., in subsequent statistical analysis), allowing for the integration of EFA results with MLR.

4.1.2.3 MLR

Model Development

Per guidance from USEPA Region 2 (USEPA 2017), MLRs were developed to explain benthic response variables using (in addition to available habitat variables) the same number of EFA factors as PCs that were required to explain ≥ 95% of the total variance in the Method 1 or Method 2 sediment chemistry datasets. MLR models containing all habitat variables and factors are referred to herein as full models.[32] Additionally, more parsimonious limited combined and limited chemistry models were developed; these models included the same number of factors as PCs that were required to explain ≥ 90% of the total variance in the applicable sediment chemistry dataset (applicable to Method 1 or Method 2). The limited chemistry model did not contain habitat variables. Lastly, habitat-only models, with only the two habitat variables (i.e., TOC and total fines),[33] and null (intercept-only) models were developed. These models provided a baseline for evaluating the relationship of sediment chemistry factors to benthic response variables. Thus, six separate MLR models[34] were developed to explain each

[32] Habitat variables, like chemical variables included in the PCA and EFA, were scaled and centered. The variables were not log-transformed because of the limited range (0 to 100%) over which TOC and total fine-grained sediment could be measured.

[33] Additional habitat variables were considered, but very few parameters were consistently measured between or within reference areas and the LPRSA. For example, DO was consistently measured for regional reference area datasets, but it was not measured at LPRSA or above Dundee Dam sampling locations.

[34] The six models included the null, habitat-only, limited chemistry, limited combined, full chemistry, and full models.

benthic invertebrate community metric and sediment toxicity test endpoint, and these models were quantitatively and qualitatively compared. Moreover, this process was conducted for both Method 1 and Method 2.

Checking MLR Assumptions

Two key assumptions of MLR were checked prior to moving forward with subsequent analyses: normality and homoscedasticity of residuals. These assumptions were evaluated visually in R using normal Q-Q plots and residual-fitted value plots, respectively. Q-Q plots with approximately linear residuals (in normal quantile space) were acceptable as normal, and some deviation from normality toward the tails of the distribution was expected. Residual-fitted value plots should have been evenly but randomly distributed around zero, with little discernible trend in residuals or their variance. If the variance of residuals appeared to increase or decrease in relation to the fitted value, then residuals were heteroskedastic. To correct non-normality or heterskedasticity of residuals, benthic response variables were log-transformed prior to fitting MLR models. The Q-Q and residual-fitted value plots were then created for the new models to check if transformation helped to satisfy the modeling assumptions. If not, then the models with untransformed values were used, and uncertainties were stated.

Leverage-residual plots were also inspected for each model to discern the degree to which subsets of data influenced the regression model. For example, single points with a high degree of leverage could significantly skew a model. Leverage was further analyzed using Cook's distance and DFFITS metrics, described below.

Collinearity and Path Analysis

In some cases, the interpretability of MLR could be affected by including many explanatory variables (i.e., variables that are collinear or highly correlated). This was not generally a problem when conducting MLR with many factors because, by design, factors were uncorrelated. However, the inclusion of both raw habitat variables and factors had the potential to cause variance inflation, creating significant uncertainty in MLR coefficient estimates and significance. Because factors were calculated using the complete sediment chemical concentration dataset, collinearity between factors could arise when developing models for benthic response variables measured at a subset of the full dataset (e.g., toxicity test endpoints and HBI). This correlatedness was likely artificial.

The variance inflation factor (VIF), an indicator of the collinearity of two variables in a MLR, was calculated for the full and limited models, which included PCs and raw habitat variables.[35] A VIF of five or greater was generally considered to be significant, and to suggest that correlation between explanatory variables had affected the model. To address collinearity, path analysis was used to identify the less important

[35] The R function "vif" from the "car" package (Fox and Weisberg 2011) was used to calculate the VIF.

variable(s) among those contributing to collinearity, so that these variable(s) could be removed from the final MLR model.

Path analysis was a means of investigating potential "causal" relationships between competing explanatory factors in a MLR.[36] Theoretical "paths" between variables in a MLR were typically constructed by the statistician using a conceptual model and institutional knowledge. Explanatory variables could be interrelated as well as related to the response variable. Ultimately, the output of path analysis was a set of coefficient estimates, among other things (e.g., Z-test p-values), that showed the importance of each explanatory variable for predicting the response variable. Based on the path analyses herein, collinear variables with relatively low (and/or insignificant) path coefficients were removed from the final MLR models. When multiple chemical factors had elevated VIF values (i.e., for sediment toxicity of HBI models with reduced datasets), higher order factors were preferentially removed, because they described smaller fractions of the variance associated with chemical concentration data. Correlation matrices were used to inform the construction of paths between variables.[37]

MLR Model Comparison

MLR models for each benthic response variables were compared using various statistics. These statistics evaluated the various strengths and weaknesses of the models, and aided in ranking the models in terms of goodness-of-fit and uncertainty (e.g., resulting from the classic bias-variance tradeoff related to overfitting or underfitting).[38] High model variance was a concern for the full model, which included more chemical factor parameters than the other models, some of which explained little of the overall variance associated with sediment chemical concentration data. High model bias was a concern for the habitat-only models, which did not include potentially important chemical factors. Unless otherwise noted, all statistics were calculated in R using built-in functions and packages.

[36] The R function "sem" from the "lavaan" package (Rosseel 2012) was used to conduct path analyses. The analyses were based, in part, on a correlation matrix generated using the "rcorr" function from the "Hmisc" package (Harrell 2016). Path analysis attempts to evaluate causality by controlling for partial correlations, but it is not truly a test of causality; results are ultimately based on correlation.

[37] Intercorrelated factors, when observed, were said to be correlated in the model rather than regressed on one another because the factors were, by design, independent. In the case of correlated factors and habitat variables, the factors were said to be regressed on the habitat variables, assuming that chemical concentrations were dependent upon the physical characteristics of sediment.

[38] Overfitting in MLR results from the inclusion of many variables (some of which are superfluous), the outcome being a model that is sensitive to random fluctuations in a response variable. Although this can result in high-performing models based on statistics such as r^2, overfit models tend to perform very poorly when presented with new data or during cross-validation (i.e., high variance in the bias-variance tradeoff). Underfitting occurs when important explanatory variables are not included, resulting in models with poor fit (i.e., high bias).

The following statistics, described in more detail below, were used to rank MLR models:

- Akaike's information criterion (AIC)
- Bayesian information criterion (BIC)
- Adjusted r^2
- Predicted residual error sum of squares (PRESS)
- Predicted r^2
- F-test result (based on sequential "type I" sum of squares)
- Number of samples with Cook's distance (D) > $\frac{4}{n}$, where n = sample size
- Number of samples with DFFITS > $2 * \sqrt{\frac{p}{n}}$, where p = number of explanatory variables and n = sample size

The AIC and BIC statistics were relative measures of model fit. Their calculation accounted for overfitting by penalizing each statistic for the number of variables included in a model. The BIC tended toward the selection of smaller models, whereas the AIC tended toward the selection of larger models (Dziak et al. 2012). Taken together, the AIC and BIC could bracket an appropriately sized MLR model. As a general rule, a decrease of 10 or more in AIC or BIC between models indicated a notable improvement in model fit.

Adjusted and predicted r^2 values were used to evaluate model fits.[39] Adjusted r^2 was similar to the standard r^2 value commonly evaluated for linear models, but it was penalized for the number of coefficients to account for overfitting. Penalization of r^2 was useful because r^2 always increased as more explanatory variables were added to an MLR, regardless of the importance of the added factors. The predicted r^2 value differed from the adjusted r^2 value in that it accounted for overfitting using a cross-validation approach rather than penalization. PRESS, which was used to calculate the predicted r^2, was calculated by 1) removing a single sample from the MLR dataset, 2) fitting the MLR, 3) estimating the squared residual error of the model, 4) returning the removed sample and removing a different sample, 5) repeating steps 2 through 4 until each sample had been removed, and 6) summing the squared residual errors across all iterations of step 3. By accounting for minor changes in a dataset (using cross-validation), PRESS and the predicted r^2 provided an indication of the

[39] Although commonly reported as a traditional measure of model fit, coefficient of multiple determination (r^2) values are generally not indicative of the strength of actual relationships which may not follow the assumptions of fitted models. Low r^2 values (such as those derived through correlation analyses in the BERA) are not necessarily an indicator of a weak relationship, and high r^2 values are not necessarily indicative of a correct model.

performance of a model in general, rather than specific to a single dataset. The functions used to calculate PRESS and predicted r^2 were developed in R.

Analysis of variance (ANOVA) could be used to compare the fit of "nested" models, or those that contained only a subset of the largest model being compared. For example, the null, habitat-only, limited chemistry, and limited combined MLR models were all nested with the full model. Because "type I" sum of squares was used to conduct ANOVA, the results of the F-test were sequential, such that a significant result ($p < 0.05$) indicated whether the habitat-only model performed better than the null model, whether the limited combined model performed better than the habitat-only model, or whether the full combined model performed better than the limited model.[40] A sequential comparison could not be made between models with only habitat variables or only chemistry variables, because they were not nested models of increasing complexity. Variables were not simply added; rather, each model was based on mutually exclusive explanatory variable subsets. In order to determine if habitat variables contributed significantly to model performance after first accounting for chemical factors, a second ANOVA was conducted by testing sequentially the null, limited chemistry, and limited combined models; the limited combined model was the same as the limited chemistry model but with habitat variables added.

Cook's D and DFFITS were measures of the influence of single samples over a regression (i.e., model-predicted values) and were indicative of potential outliers. The Cook's D threshold of $4/n$, described above, was suggested by Bollen and Jackman (1990), and the DFFITS threshold of 2 times $\sqrt{p/n}$ was suggested by Belsley et al. (1980).

Although commonly reported as a traditional measure of model fit, coefficients of multiple determination (r^2) values are generally not indicative of the strength of actual relationships, which may not follow the assumptions of fitted models. Low r^2 values (such as those derived through correlation analyses in the BERA) are not necessarily an indicator of a weak relationship, and high r^2 values are not necessarily indicative of a correct model.

4.1.3 T20 and T50 sediment chemistry screen

LPRSA sediment chemistry data were compared to logistic regression model-based screening criteria for select chemicals (i.e., those for which such criteria exist) for the purpose of assigning weights to the sediment chemistry LOE in the WOE analysis (Section 6.1 of the BERA main text). The T20 and T50 values described by Field et al. (2002) were used to evaluate LPRSA chemistry data (Appendix B, Table B7-1). LPRSA locations with at least one chemical concentration exceeding a T20 value were assigned a weight of 0.5 in the WOE analysis, and locations with at least one

[40] A model "perfomed" better in the case of ANOVA if the larger model significantly reduced the residual sum of squares relative to the smaller model.

concentration exceeding a T50 value were assigned a weight of 1.0 in the WOE analysis.

4.1.4 Uncertainty analyses

Uncertainty analysis methods are described in subsections below. The results of uncertainty analyses are described in Section 4.3 and subsections.

4.1.4.1 Predictive accuracy of T20 and T50 criteria

LPRSA toxicity test results were used to evaluate the reliability of T50 values (Field et al. 2002) to predict toxicity of LPRSA sediment relative to reference conditions. This evaluation was accomplished by calculating several reliability statistics that are common to contingency tables. Reliability statistics are used to quantify the ability of a classification scheme to predict categorical results (e.g., toxic or not toxic) (James et al. 2013). Sediment chemistry data are often compared to sediment quality guidelines (e.g., T50 values) in an effort to classify sediment samples as being either likely toxic or likely non-toxic to aquatic species. This comparison can be evaluated using reliability statistics when empirical sediment toxicity test data are co-located with sediment chemistry data, as in the LPRSA. The actual toxicity of LPRSA sediments (relative to reference conditions) is described in Appendix B (Tables B3 and B4) and summarized in Table 3-11. T50 exceedances are described in Section 4.3.1 and Appendix B (Table B7-1).

The following reliability statistics were calculated to assess the accuracy of T50 values:

- Number of true positives, false positives, true negatives, and false negatives
- Type I and II error rates (and total error rate)
- Sensitivity and specificity
- Precision and false discovery rate

A true positive result is defined as LPRSA sediment toxicity that was outside the reference envelope and that was predicted to be toxic due to an exceedance of any T50 at the same location. A false positive is defined as an LPRSA location with actual sediment toxicity within the reference envelope (i.e., not toxic) but that was predicted to be toxic due to an exceedance of a T50 at the same location. True and false negatives represent analogous scenarios wherein a sediment sample was predicted to be non-toxic. The type II error rate is the number of false positives divided by the total number of samples, and the type I error rate is the number of false negatives divided by the total number of samples. The total error rate is the sum of the type I and type II error rates and therefore reflects the percentage of results misclassified by the T50.

Sensitivity and specificity can be defined as the probability that the T50 will predict toxicity when there is actually toxicity (sensitivity) or predict no toxicity when there is actually no toxicity (specificity). Sensitivity and specificity are each calculated on a scale between 0 and 1, with 1 being perfect sensitivity or specificity. A perfectly

accurate classifier (e.g., T50) would have both specificity and sensitivity values equal to 1. Sensitivity is calculated as the number of true positives divided by the sum of actually positive results (i.e., true positives and false negatives). Specificity is calculated similarly, as the number of true negatives divided by the number of actually negative results (i.e., true negatives and false positives).

Precision and the false discovery rate are measures of the probability of obtaining a false positive result. A precision value equal to 1 indicates that a classifier (e.g., T50) always correctly predicts toxicity, whereas a false discovery rate equal to 1 indicates that the predictor always falsely predicts toxicity. Precision is calculated as the number of true positives divided by the sum of predicted positives (i.e., true positives and false positives). The false discovery rate is equal to 1 minus precision.

4.1.4.2 SEM-AVS analysis

Extensive testing of the fate, transport, and toxicity of metals in sediment over a period of decades has resulted in the development of the EqP as a paradigm for metals toxicity in sediment. The EqP paradigm is based on findings that sediment toxicity tends to be better predicted from pore water concentrations than from total, dry weight concentrations of metals in bulk sediment (USEPA 2005b). The toxicities of metals are driven by their respective bioavailabilities, and dissolved metals are more bioavailable than metals bound to particulate material or precipitates (Di Toro et al. 2001; DiToro et al. 2005; EPA 2003; Paquin et al. 2002; Santore et al. 2001; Wood 2012).

Metal sulfides are a primary example of insoluble metal complexes that can be formed in sediment and sediment pore water (Newman 1998). The cold acid-extraction method is used to determine the level of sulfides in sediment; sulfides extracted using this method are called AVS, and the divalent metals that dissolve during the analytical procedure are called SEM (Allen et al. 1991). The difference between the molar concentrations of ΣSEM and AVS has been used to predict whether several divalent metals (i.e., cadmium, copper, lead, nickel, silver, and zinc)[41] in sediment are non-toxic (USEPA 2005b). This follows from the EqP paradigm, in that the concentration of soluble metals does not exceed the complexation capacity of sulfides when the molar concentration of ΣSEM is less than the molar concentration of AVS (i.e., ΣSEM – AVS < 0 µmol/g), resulting in non-bioavailable metals.

A key uncertainty associated with the SEM-AVS method is that analytical measurements of SEM-AVS tend to be irreproducible among laboratories, owing to the volatile nature of the analytes (Hammerschmidt and Burton 2010). The SEM-AVS analyses for LPRSA SQT sediments were conducted by a single laboratory (Columbia Analytical Services in Kelso, Washington), thereby reducing this uncertainty.

[41] Additional SEM exist; however, their relationships to laboratory toxicity test data are not well characterized in the literature.

When the molar concentration of ΣSEM in bulk sediment exceeds the molar concentration of AVS (i.e., ΣSEM-AVS > 0 µmol/g), the sediment *might* be toxic due to the bioavailability of metals. In order to estimate potential metal toxicity in such cases, it is first necessary to consider the OC content of sediment, because OC also sorbs metals and limits the bioavailability of metals not bound to AVS (i.e., the excess SEM) (USEPA 2005b). The influence of OC is accounted for by normalizing the excess SEM concentration to the fraction of OC in the sediment (i.e., [ΣSEM-AVS]/f_{OC}). Based on an evaluation of sediment toxicity data versus OC-normalized excess SEM concentrations, the following concentrations were derived for predictions of no toxicity expected, uncertain toxicity, and a high likelihood of toxicity (USEPA 2005b):

- No toxicity expected – (ΣSEM-AVS)/f_{OC} ≤ 130 µmol/g OC
- Uncertain toxicity[42] – (ΣSEM-AVS)/f_{OC} > 130 and ≤ 3,000 µmol/g OC
- High likelihood of toxicity – (ΣSEM-AVS)/f_{OC} > 3,000 µmol/g OC

Although there were no SEMs identified as COPECs in the SLERA,[43] several SEMs were assessed as part of the sediment chemistry LOE and compared with measured sediment toxicity and benthic community metrics. The results from this analysis are presented in Section 4.3.2.

4.1.4.3 Equilibrium partitioning-based analysis of 34 PAHs

In response to discussions with USEPA Region 2, CPG has provided an analysis of the potential for PAH toxicity using the sum of 34 PAHs. The 34-PAH-sum approach to predicting PAH toxicity is described by USEPA (2003) guidance. The 34-PAH-sum approach differs from the other analyses of sediment chemistry in this ERA, which are based on a summed, dry weight concentration of 16 PAHs.[44]

Similar to the EqP analysis of metals (Section 4.1.5.2), USEPA provides guidance on the analysis of 34 PAH mixtures using an EqP approach (USEPA 2003). The EqP paradigm holds that PAHs partition among OC, interstitial water, and benthic invertebrate tissues (among other substrates). Following USEPA (2003) guidance, partitioning coefficient values (i.e., Kow and Koc) and toxic equivalency factors are used to calculate EqP-based PAH sums (in toxic units) (referred to hereafter as ΣESB TUs) for each sediment sample. If a ΣESB TU exceeds 1, then the potential exists for toxic impacts on sensitive benthic invertebrate species.

In discussion with USEPA Region 2, it was agreed that CPG would provide an analysis of uncertainty associated with the use of sums of 16 PAHs rather than toxic unit-based 34-PAH sums. However, a direct comparison using USEPA (2003) methods

[42] Within this range of concentrations, toxicity varies substantially (USEPA 2005b).

[43] No New Jersey Department of Environmental Protection (NJDEP) ecological screening criteria for SEMs are available, so SEMs could not be identified as COPECs using these criteria in the SLERA.

[44] The method for summing PAHs in the BERA is described in the *Data usability and data evaluation plan for the Lower Passaic River Study Area risk assessments* (Windward and AECOM 2015).

is neither possible nor relevant given the discussion of sediment chemistry provided in this LOE. Instead, the toxic unit-based 34-PAH sums are evaluated on their own, similarly to SEM-AVS, in Section 4.3.3.

4.1.4.4 Quantitative analysis of the uncertainty associated with sediment chemistry LOE criteria

An analysis was conducted to address uncertainties associated with using the T20 and T50 values to define the sediment chemistry LOE. Uncertainties in those values are quantified in Section 4.3.1. The analysis described in the following subsections represents an alternative approach to classifying LPRSA SQT samples as likely toxic or likely nontoxic based on measured sediment chemical concentrations.

Mean-quotient Threshold Comparison

LPRSA sediment chemistry data were evaluated using a mean-quotient approach and reference area sediment toxicity test data. Sediment chemical concentration data from Jamaica Bay and Mullica River/Great Bay were used to calculate mean ERM quotient (mERMq) values (for each reference area), and sediment concentration data from the area above Dundee Dam were used to calculate mPECq values. These reference area mean-quotients were then compared to co-located sediment toxicity data (as a percent of negative control results), and low and high mERMq and mPECq thresholds were selected.

The low mERMq threshold for each reference area dataset was set as the highest mERMq value below which *A. abdita* survival was entirely ≥ 80% of the negative control result (i.e., an "acceptable" estuarine reference sample), and the low mPECq threshold was set as the highest mPECq value below which *C. dilutus* or *H. azteca* survival was entirely ≥ 75% of the negative control result (i.e., an "acceptable" freshwater reference sample). The lower (i.e., more protective) mPECq value between the two freshwater toxicity test species was selected as the low mPECq threshold.[45] The high mERMq threshold was set as the lowest mERMq value above which *A. abdita* survival was entirely < 80% of negative control, and the high mPECq threshold was set as the lowest mPECq value above which *C. dilutus* or *H. azteca* survival was entirely < 75% of negative control. Again, the lower mPECq value between the two freshwater toxicity test species was selected as the high mPECq threshold. These values are presented in Appendix B, Table B7-2.

Sediment chemical concentration data from the LPRSA (i.e., mERMq and mPECq values) were screened against the mERMq and mPECq reference thresholds to categorize potential chemical risks. LPRSA values below the low thresholds were categorized as having negligible potential to cause toxicity (0.0 weight in the

[45] The values of 80 and 75% of control for estuarine and freshwater sediment toxicity test results are the same values used to screen the reference datasets used to characterize benthic risk (as described in Section 2.3.1 and Appendix B, Tables B3-3 and B4-3).

quantitative analysis of uncertainty). LPRSA values exceeding the high thresholds were categorized as having high potential to cause toxicity (1.0 weight in the quantitative analysis of uncertainty). LPRSA values exceeding the low threshold but not exceeding the high threshold were categorized as having an unclear potential to cause toxicity (0.5 weight in the quantitative analysis of uncertainty). These values are presented in Appendix B, Table B7-3.

This approach to evaluating LPRSA sediment chemistry is based on site-specific effects data rather than literature-based analyses (e.g., T20 and T50 values). Sections 4.1.5.1 and 4.1.5.2 describe uncertainties associated with the two chemical LOE approaches.

Predictive Accuracy of Mean-quotient Threshold Comparison

LPRSA toxicity test results were used to evaluate the reliability of mean-quotient values (Appendix B, Table B7) to predict the toxicity of LPRSA sediment relative to reference conditions. This evaluation was conducted as described in Section 4.1.5.1 for T20 and T50 values, but using the low and high mean-quotient threshold values derived for freshwater and estuarine reference areas in place of the T20 and T50 values. The comparison of LPRSA chemistry data to mean-quotient thresholds is presented in Appendix B, Table B7-3.

4.2 RESULTS

4.2.1 Bivariate correlation analysis

Results for the bivariate Spearman rank correlation analyses conducted for the LPRSA SQT dataset are summarized in Tables 4-2 and 4-3, and the complete results are provided in Appendix B (Table B1-6).

Table 4-2. Spearman rank correlation coefficients for significant correlations, site-wide LPRSA (RM 0 to RM 17.4)

Chemical	*C. dilutus* Weight	*C. dilutus* Biomass	*C. dilutus* Survival	*H. azteca* Weight	*H. azteca* Biomass	*H. azteca* Survival	*A. abdita* Survival	Abundance (per m^2)	Taxa Richness	Shannon-Wiener H'	Pielou's J'	SDI	HBI[a]
Lead	-0.27	--	--	-0.35[b]	-0.43[b]	-0.41[b]	--	--	-0.36[a,b]	-0.36[a,b]	--	-0.30	0.65
Mercury	-0.30	--	--	-0.27	-0.31	-0.31	--	-0.26	-0.33	-0.26	--	-0.22	0.61
Zinc	-0.28	--	--	-0.23	-0.31	-0.33	-0.42	--	-0.36[b]	-0.34	--	-0.26	0.63
Total HPAHs	--	--	--	--	-0.23	-0.24	--	--	--	--	--	--	--
Total LPAHs	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis-(2-ethylhexyl) phthalate	--	--	0.30[c]	-0.35	-0.35[b]	-0.28	--	-0.30	-0.51[b]	-0.36[b]	--	-0.26	0.49
Total PCB Congeners	--	--	--	-0.28	-0.27	-0.28	--	-0.30	-0.47	-0.42	--	-0.38	0.48
Total DDx	--	--	--	--	--	--	--	-0.34	-0.55[b]	-0.47[b]	--	-0.39[b]	0.51
TOC[d]	--	--	--	-0.22	-0.26	-0.25	--	-0.24	-0.51	-0.52	-0.22	-0.44	--
Percent fines[d]	--	--	--	--	--	--	0.43	-0.29	-0.32	-0.20	--	--	--

[a] Positive correlations with HBI are suggestive of a chemical response.

[b] Correlation is significant after Bonferroni correction (corrected alpha = 0.0005).

[c] Correlation is positive and therefore not suggestive of chemical response.

[d] TOC and percent fines are included for context but are included in summaries made in the text (i.e., percent of significant correlations).

DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
HBI – Hilsenhoff Biotic Index
HPAH – high-molecular weight polycyclic aromatic hydrocarbon
LPAH – low-molecular-weight polycyclic aromatic hydrocarbon
LPRSA – Lower Passaic River Study Area
PCB – polychlorinated biphenyl
RM – river mile
SDI – Swartz's dominance index
TOC – total organic carbon
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

Table 4-3. Spearman rank correlation coefficients for significant correlations, tidal freshwater zone (RM 13 to RM 17.4)

Chemical	*C. dilutus* Weight	*C. dilutus* Biomass	*C. dilutus* Survival	*H. azteca* Weight	*H. azteca* Biomass	*H. azteca* Survival	Abundance (per m^2)	Taxa Richness	Shannon-Wiener H'	Pielou's J'	SDI	HBI[a]
Total PAHs	--	--	--	--	--	--	--	--	--	--	--	--
Bis-(2-ethylhexyl) phthalate	--	--	--	-0.62	-0.52	--	--	--	--	--	--	0.49
Phenol	--	--	--	--	--	--	0.51[b]	--	--	--	--	--
Total PCB Congeners	--	--	--	--	--	--	--	--	--	--	-0.51	0.48
Total chlordanes	--	--	--	--	--	--	--	--	--	--	--	--
Total DDx	--	--	--	--	--	--	--	-0.48	-0.48	--	--	0.51
TOC[c]	--	--	--	--	--	--	--	--	-0.48	--	--	--
Percent fines[c]	--	--	--	--	--	-0.52	0.51[b]	--	--	--	--	--

Note: No correlation reported in this table was significant after Bonferroni correction (corrected alpha = 0.0007).

[a] Positive correlations with HBI are suggestive of a chemical response.

[b] Abundance is positively correlated, which may suggest a chemical response.

[c] TOC and percent fines are included for context but are included in summaries made in the text (i.e., percent of significant correlations).

DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
HBI – Hilsenhoff Biotic Index
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
RM – river mile
SDI – Swartz's dominance index
TOC – total organic carbon
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

As can be seen in Table 4-2, there are several significant and relevant correlations between benthic response variables and paired sediment chemistry data (as well as TOC and percent fines). Of the 104 correlations tested,[46] 50 were significant (48%). Pielou's J' and *C. dilutus* biomass and survival were not correlated with any chemicals, and total low-molecular-weight polycyclic aromatic hydrocarbons (LPAHs) were not correlated with any benthic responses.[47] The strongest correlations were observed between metals and HBI. Weaker correlations were observed for *H. azteca* toxicity test endpoints, *C. dilutus* growth, abundance (per m^2), and SDI. Apart from correlations between metals and HBI, coefficients of variation (squared r-values, which correspond with the percentage of variance explained by the bivariate relationship) are quite low ($r^2 \leq 0.31$) for all significant relationships. After Bonferroni correction, the number of significant correlations decreased, as expected.

Only 9 of 72 tested correlations[48] (10%) were significant for the tidal freshwater dataset (Table 4-3). Although many of the correlations for that dataset are weak (i.e., low r-value) (Appendix B, Table B1), the r-values are not uniformly low relative to r-values from analogous correlations tested with site-wide data. This suggests that the correlation analyses of tidal freshwater data were limited by the small freshwater dataset sample size (relative to the site-wide dataset). The tidal freshwater sample size was 18 for benthic community metrics and 19 for toxicity test data, compared to (for example) 97 and 98 for benthic community metrics and *H. azteca* toxicity test endpoints, respectively, in the site-wide dataset.[49] Regardless, coefficients of variation among significant correlations of paired freshwater data were generally weak ($r^2 < 0.3$), excepting only the correlation between *H. azteca* growth and bis(2-ethylhexyl) phthalate ($r^2 = 0.39$).

Correlations between chemicals, presented in Appendix B, Table B1, indicate fairly strong relationships between metals and non-PAH organic chemicals. Total LPAHs are particularly uncorrelated with other chemicals in the LPRSA.

Given that there are many significant correlations between chemistry and benthic responses site wide, there is reason to believe that chemistry and benthic responses are related in some way, although bivariate correlations are weak. This indicates that single chemical-benthic response relationships are unreliable for predicting ecological risks to benthic invertebrates throughout the LPRSA based on sediment chemistry data alone.

[46] The count of 104 excludes correlations conducted with TOC and percent fines.
[47] Pielou's J' was only significantly correlated with TOC.
[48] The count of 72 excludes correlations conducted with TOC and percent fines.
[49] Other sample sizes are as follows: *C. dilutus* toxicity test endpoints (n = 71), *A. abdita* survival (n = 27), and HBI (n = 18). HBI was only calculated for freshwater locations, so correlation results are identical between the two datasets.

4.2.2 Multivariate analysis

The results of the multivariate analysis are detailed in Appendix B, Table B2, and discussed in this section. The results based on analyses of the two multivariate datasets (Method 1 and Method 2) are described separately first (Sections 4.2.2.1 and 4.2.2.2) and then compared (Section 4.2.2.3).

4.2.2.1 Method 1 results

Principal Component Analysis

Eigenvalues from the Method 1 PCA indicated that the vast majority (86%) of the total variance in sediment chemical concentration data could be explained by the first 2 (of 30) PCs, but that 7 PCs were required to explain 95% of the total variance. Only 3 PCs were required to explain 90% of the total variance.

Exploratory Factor Analysis

Loading values indicated that the first three factors (referred to as F1, F2, and F3) were generally associated with:

- F1 – all PAHs; some metals (e.g., copper, mercury, lead, and zinc) to a moderate extent; and alpha-chlordane, Dieldrin, and total DDx to a moderate extent.
- F2 – primarily all metals (particularly arsenic, chromium, nickel, and silver); total DDx and hexachlorobenzene to a lesser extent
- F3 – primarily organochlorine pesticides

Factors 4, 5, 6, and 7 were weakly associated with a number of chemical variables. The factor scores from the Method 1 EFA are provided in Appendix B, Table B2-3.

Multiple Linear Regression

The results of MLR analyses are presented in Table 4-4, which includes an indication of the model type, relevant statistics (Section 4.1.2.3, MLR Model Comparison), the "best" model selected, modeling development notes, and rationale for model selection. Caveats are related to specific treatments of model datasets, such as dropping variables to reduce VIF and/or low or non-significant path coefficients (Section 4.1.2.3, Collinearity and Path Analysis), or transforming response variables to address non-normality, trends, or heteroscedasticity of residuals (Section 4.1.2.3, Checking MLR Assumptions). Included in the model notes is an indication of which variables were significant[50] (as well as the implication of significance) when included in the full model, even if the full model was not selected as "best." This investigation is meant to evaluate which coefficients are important in terms of sign (i.e., positive or negative relationship to the response variable) and (absolute) magnitude (i.e., degree of

[50] Significance is based on a t-test, alpha = 0.05. A significant t-test result indicates that the slope parameter for the given variable is different from 0, suggesting a relationship.

influence over the model, when all other explanatory variables are held constant). Chemical factor coefficients and habitat variable coefficients are directly comparable because they are in the same units (standard deviation).

Table 4-4. MLR results, Method 1

Endpoint	Model	df	AIC	BIC	Adjusted r^2	PRESS	Predicted r^2	F-test Significant ($p < 0.5$)?[a]		No. of Samples with Cook's D > 4/n	No. of Samples with DFFITS > 2 × sqrt(p/n)	Notes and Model Selection Rationale
Abundance (per m^2)	null	2	468	474	--	124	-0.0103	--		12	105	The full model is significantly better than other models according to the F-test results, but the relevance of this result is dubious given the quality of the model fit. The inclusion of habitat improves the null model but not the limited chemistry model, suggesting that chemistry is marginally more important than habitat for predicting abundance. Total fines, F3, and F7 are significant variables in the full model (t-test, $p < 0.05$). F7 is essentially uninterpretable. Total fines has the largest coefficient among significant variables. F3 and F7 have similar coefficient values.
	habitat-only	4	459	472	0.0520	120	0.0193	yes		12	11	
	limited combined	8	453	480	0.0980	116	0.0500	yes	no	11	4	
	limited chemistry	6	455	475	0.0800	116	0.055	yes		11	5	
	full	11	448	484	0.136	113	0.0749	yes		14	6	
Richness	null	2	1,450	1,456	--	18,500	-0.0103	--		10	80	Based on Q-Q plots, the normality of richness model residuals is suspect; log-transformation of richness does not address this uncertainty, so the raw data are modeled. Based on model statistics, the limited chemistry model is best, although it appears to be influenced by the more extreme values (based on Cook's D and DFFITS). Habitat variables do not improve the model, nor does the full set of chemical factors. The limited chemistry model performs better than the habitat-only model based on AIC, BIC, adjusted and predicted r^2, and PRESS. F1, F2, and F3 are all significant factors when included in the full model (t-test, $p < 0.05$); F1 and F2 have similar coefficients, and F3 is approximately 2 times larger then F1 and F2.
	habitat-only	4	1,435	1,449	0.0790	17,357	0.0521	yes		12	15	
	limited combined	8	1,379	1,406	0.322	13,161	0.281	yes	no	19	15	
	limited chemistry	6	1,376	1,395	0.327	12,850	0.298	yes		22	15	
	full	11	1,383	1,419	0.320	13,633	0.255	no		20	12	
Shannon-Wiener H'	null	2	328	335	--	60.6	-0.0103	--		13	99	Model statistics (i.e., AIC, BIC, PRESS, and predicted r^2) indicate that the limited chemistry model is best. The addition of habitat variables does not improve the chemistry model, nor does adding the full set of chemical factors. F2 and F3 are significant factors when included in the full model (t-test, $p < 0.05$); the coefficients for these factors are similar.
	habitat-only	4	302	315	0.135	54.0	0.0994	yes		9	11	
	limited combined	8	256	282	0.328	43.8	0.269	yes	no	18	9	
	limited chemistry	6	256	275	0.322	42.8	0.287	yes		16	9	
	full	11	260	296	0.325	45.6	0.239	no		18	9	
Pielou's J'	null	2	-169	-163	--	4.7	-0.0103	--		10	97	The full model is best based on the higher r^2 values and slightly lower values for other statistics, but this result is very uncertain due to the poor fit of the model. Adding habitat significantly improves the limited chemistry model. TOC, total fines, F2, F3, and F7 are significant factors in the full model (t-test, $p < 0.05$). F7 is essentially uninterpretable. Total fines is positively related to J′. The coefficients for total fines, F2, and F7 are largest (and similar to one another).
	habitat-only	4	-172	-159	0.0230	4.7	-0.00438	yes		14	7	
	limited combined	8	-173	-147	0.0490	4.7	-0.00263	yes	yes	15	10	
	limited chemistry	6	-173	-153	0.0370	4.7	0.00433	yes		15	12	
	full	11	-182	-146	0.105	4.5	0.0432	yes		13	11	
SDI (log)	null	2	-36	-30	--	9.5	-0.0103	--		18	94	Q-Q plots suggest that model residuals are not normal, and residual-fitted value plots suggest heterskedasticity of residuals. Log-transformation of SDI values sufficiently addresses both uncertainties. The limited chemistry model is best, as suggested by the AIC, BIC, PRESS, and predicted r^2 statistics. The addition of habitat variables does not improve the limited chemistry model, nor does adding the full set of chemical factors. Total fines, F2, and F3 are significant factors in the full model (t-test, $p < 0.05$). Total fines is positively related to SDI. Total fines is positively related to SDI. F2 has the largest coefficient, but the coefficients for F3 and total fines are only slightly lower than that for F2 (within a factor of 2).
	habitat-only	4	-56	-43	0.104	8.7	0.0703	yes		9	12	
	limited combined	8	-87	-60	0.250	7.6	0.191	yes	no	17	10	
	limited chemistry	6	-87	-67	0.242	7.4	0.205	yes		16	8	
	full	11	-85	-49	0.256	7.7	0.172	no		16	10	

Endpoint	Model	df	AIC	BIC	Adjusted r^2	PRESS	Predicted r^2	F-test Significant ($p < 0.5$)?[a]		No. of Samples with Cook's D > 4/n	No. of Samples with DFFITS > 2 × sqrt(p/n)	Notes and Model Selection Rationale
HBI	null	2	170	175	--	41.5	-0.0272	--		4	43	Models are based on a small subset of data (n = 75, reduced from n = 205). VIF values are elevated for total fines and F2; path analysis indicates that F2 is more important than total fines for explaining HBI. Total fines are removed from models to reduce variance inflation (model uncertainty). Removing total fines does not substantially improve model fit. Diagnostic plots indicate that residuals are not normal for the habitat-only model, and that some extreme values may be influencing regressions. Log-transformation of HBI is not useful due to the small range of possible HBI values (0–10). The same problem is not as pronounced for the other models. The full model is the best model based on its higher r^2 values and similar AIC and BIC values, even though the model is more complex. The predicted r^2 value is highest for the full model, suggesting that it is not overfit. Also, the F-test results indicate that the addition of both habitat variables and the full chemical factor list significantly improves the model. F1, F2, F3, and F7 are significant factors in the full model (t-test, $p < 0.05$). F7 is essentially uninterpretable. The F1 and F3 coefficients are greatest (and similar), and the F2 and F7 coefficients are approximately half of those for F1 and F3.
	habitat-only	3	166	173	0.0730	39.1	0.0315	yes		5	0	
	limited combined	7	99	115	0.638	18.2	0.550	yes	yes	8	3	
	limited chemistry	6	97	111	0.641	17.8	0.559	yes		7	3	
	full	10	93	116	0.678	16.7	0.587	yes		9	4	
C. dilutus survival	null	2	-85	-80	--	2.2	-0.0216	--		4	59	Models are based on a small data subset (n = 94, reduced from n = 205). VIF values are elevated for F1 and F2 (and to a lesser extent, total fines and F3); path analysis indicates that total fines and F2 (as well as F4 and F7) are not significant variables, and that F3 is positively related to survival. Total fines, F3, F4, and F7 are removed from models to address inflation across several variables. F1 and F2 are retained to account for the majority of variance associated with chemical variables. Diagnostic plots indicate that there are several extreme values that are likely influencing regressions. The limited chemistry model is best, in that it has AIC, BIC, PRESS, predicted r^2, and extreme values similar to those of other models, but with a lower number of variables. Habitat variables (in this case, only TOC) improve neither the null model nor the limited chemistry model. Due to the very poor fit of all models, the best result is highly uncertain. F1 and F6 are significant factors in the full model (t-test, $p < 0.05$). F6 is essentially uninterpretable.
	habitat-only	3	-86	-78	0.0190	2.3	-0.0898	no		4	1	
	limited combined	5	-94	-81	0.120	2.3	-0.0684	yes	no	4	1	
	limited chemistry	4	-96	-86	0.130	2.2	-0.0247	yes		6	2	
	full	7	-97	-80	0.169	2.2	-0.0274	yes		5	2	
C. dilutus biomass	null	2	-25	-20	--	4.1	-0.0216	--		4	52	All models are based on a small data subset (n = 94, down from n = 205). VIF values are elevated for F1 and F2 (and, to a lesser extent, total fines, F3, F4, and F5); path analysis indicates that total fines, F3, and F4 are not significant, and that F3 has a positive relationship with biomass. F3 and total fines are removed from models, which has an adverse impact on model fits but reduces model uncertainty. Based on model statistics, the limited combined model is best. The F-test result for that model (comparison to limited chemistry) indicates that the addition of TOC significantly improves the model, although model statistics (excepting r^2 values) suggest that the models are quite similar. Adding the full set of chemical factors does not improve on the limited combined model. Due to the poor fit of all models, the best result is highly uncertain. TOC, F1, and F2 are significant factors in the full model, although TOC is positively related to biomass. Coefficients for each variable are similar to each other (within a factor of 2).
	habitat-only	3	-25	-17	0.00800	4.2	-0.0448	no		6	6	
	limited combined	6	-42	-27	0.202	3.6	0.119	yes	yes	6	5	
	limited chemistry	5	-37	-24	0.148	3.7	0.0890	yes		6	5	
	full	9	-40	-17	0.207	3.6	0.0981	no		6	4	
H. azteca survival	null	2	-12	-7	--	6.3	-0.0167	--		9	68	Models are all based on a small data subset (n = 121, down from n = 205). Q-Q plots indicate that the normality of residuals is suspect. Simple transformations (i.e., logarithmic or square-root) do not sufficiently address the issues associated with residuals. VIF values are elevated for F1 and F2 (and, to a lesser extent, total fines); path analysis indicates that total fines, F3, and F4 are not significant, and that F3 has a positive relationship with biomass. Correlation tables suggested that F4 is correlated with several of the inflated variables as well. Removing F4 from models decreases VIF to an acceptable level (< 5) for all variables while retaining the more important factors of F1, F2, and F3. Based on model statistics, the limited combined model is best. The F-test result for that model (comparison to limited chemistry) indicates that the addition of habitat variables significantly improves the limited chemistry model; other statistics also suggest that the limited combined model is best. Adding the full set of chemical factors does not improve the limited combined model. TOC, total fines, F2, and F3 are significant factors in the full model, although both total fines and F3 have positive relationships with *H. azteca* survival. F2 and total fines have the largest coefficients; the coefficients (absolute) for F3 and TOC are approximately 2.5 times lower than that for F2.
	habitat-only	4	-30	-19	0.151	5.5	0.115	yes		9	4	
	limited combined	7	-62	-42	0.362	4.2	0.319	yes	yes	8	3	
	limited chemistry	5	-40	-26	0.221	5.1	0.180	yes		8	4	
	full	10	-57	-29	0.349	4.5	0.280	no		8	3	

Endpoint	Model	df	AIC	BIC	Adjusted r^2	PRESS	Predicted r^2	F-test Significant ($p < 0.5$)?[a]		No. of Samples with Cook's D > 4/n	No. of Samples with DFFITS > 2 × sqrt(p/n)	Notes and Model Selection Rationale
H. azteca biomass	null	2	-23	-18	--	5.8	-0.0167	--		7	59	All models are based on a small data subset (n = 121, down from n = 205). VIF values are elevated for F1 and F2 (and, to a lesser extent, total fines). Correlation analysis suggests that other factors (e.g., F5) are also correlated with F1, F2, and total fines. Path analysis indicates that F5, F6, and F7 are not significant. Removing F5 from models decreases VIF to an acceptable level (< 5) for all variables while retaining the more important factors, F1, F2, and F3. Based on model statistics, the limited combined model is best. The F-test result for that model (comparison to limited chemistry) indicates that the addition of habitat variables significantly improves the limited chemistry model; other statistics (e.g., PRESS and predicted r^2) also suggest that the limited combined model is best. Adding the full set of chemical factors does not improve the limited combined model. TOC, total fines, and F2 are significant factors in the full model, although total fines has a positive relationship with *H. azteca* biomass. F2 and total fines have the largest coefficients; the coefficient (absolute) for TOC is approxiately 2 times less than those for F2 or total fines.
	habitat-only	4	-36	-25	0.116	5.2	0.0879	yes		8	9	
	limited combined	8	-57	-34	0.277	4.3	0.236	yes	yes	7	8	
	limited chemistry	6	-34	-17	0.116	5.2	0.0773	yes		7	7	
	full	10	-56	-28	0.285	4.4	0.228	no		8	6	
A. abdita survival	null	2	33	38	--	8.1	-0.0199	--		10	72	All models are based on a small data subset (n = 102, down from n = 205). Diagnostic plots indicate that the linear models of *A. abdita* survival are questionable; there are substantial deviations from residual normality and many extreme residual values. Transformation of survival (using log or square root) does not address residual issues. Model statistics suggest that the full model is best; it has the highest adjusted r^2 and predicted r^2 while still having the lowest AIC, suggesting that the model is not overfit. Interestingly, neither the habitat nor limited chemistry variables (F1 through F4) significantly reduce model error relative to the null model, but the combination of all variables results in a significant improvement; adding the entire set of chemical factors improves the model further. Total fines, F2, and F7 are significant factors in the full model (t-test, $p < 0.05$), although total fines is positively related to *A. abdita* survival. F7 is essentially uninterpretable. The coefficients for F2 and total fines are similar, but the coefficient for F7 is less than one-half that for F2.
	habitat-only	4	37	48	-0.0200	8.3	-0.0475	no		6	1	
	limited combined	8	22	43	0.148	7.2	0.0944	yes	yes	5	2	
	limited chemistry	6	34	50	0.0300	8.0	-0.00899	no		3	0	
	full	11	16	45	0.218	6.8	0.149	yes		4	3	

Note: Descriptions of the statistics presented in Table 4-4 are provided in Section 4.1.2.3 MLR, Model Comparison. Shaded rows indicate the best model based on multiple statistics and best professional judgment.

[a] Two separate, sequential F-tests were run by adding a set of models into an ANOVA; these tests compared each model to the model added previously to the ANOVA to determine if there was a significant reduction in model error. The null model was not tested because it was always the first model entered into the ANOVA (with no prior model for comparison). The sequence of models added to the first ANOVA was null, habitat-only, limited combined, and full model, so that the test results indicated the effect of adding habitat variables before chemistry (i.e., whether chemistry improved the model significantly when accounting for habitat effects). The sequence of models added to the second ANOVA was null, limited chemistry, and limited combined models, so that the test indicated the effect of adding habitat variables after chemistry (i.e., whether habitat improved the model significantly when accounting for chemistry effects); the full model was not analyzed in the second ANOVA because the comparison to the limited combined model was the same as for the first ANOVA. In Table 4-4, results from the first ANOVA are reported for the habitat-only, limited combined (left-hand value), and full model; results from the second ANOVA are reported for the limited combined (right-hand value) and limited chemistry models.

ANOVA – analysis of variance
AIC – Akiake's information criterion
BIC – Bayesian information criterion
df – degrees of freedom
HBI – Hilsenhoff Biotic Index
MLR – multiple linear regression
n – sample size
p – number of explanatory variables
PRESS – predicted residual error sum of squares
VIF – variance inflation factor
TOC – total organic carbon
SDI – Swartz's Dominance Index

4.2.2.2 Method 2 Results

Principal Component Analysis

Eigenvalues from the Method 2 PCA indicated that four PCs were required to explain 90% of the total variance in the Method 2 sediment chemistry dataset, and six PCs were required to explain 95% of the total variance.

Exploratory Factor Analysis

Loading values indicated that the factors were associated with:

- F1 – total PCBs and organochlorine pesticides
- F2 – metals, total PAHs, and bis-(2-ethylhexyl) phthalate
- F3 – bis-(2-ethylhexyl) phthalate
- F4 – mercury
- F5 – total PCBs

No chemicals were strongly associated with F6 (Appendix B, Table B2-4). The scores from the Method 2 EFA are provided in Appendix B, Table B2-4.

Multiple Linear Regression

The results of MLR analyses are presented in Table 4-5 (and Appendix B, Table B2-6), which is analogous to the summary of Method 1 results presented in Table 4-4.

Table 4-5. MLR results, Method 2

Endpoint	Model Type	df	AIC	BIC	Adjusted r^2	PRESS	Predicted r^2	F-test Significant ($p < 0.5$)?		No. samples with Cook's D > 4/n	No. Samples with DFFITS > 2 × sqrt(p/n)	Notes and Model Selection Rationale
Abundance (per m^2)	null	2	222	228	--	43.6	-0.0167	--		4	68	The habitat-only model is best due to its relatively low AIC BIC, and PRESS statistics and relatively high predicted r^2. The addition of chemistry factors does not significantly improve the habitat-only model (i.e., limited combined model); the addition of F5 and F6 significantly improve the model, but these factors are associated with only a small portion of the total variance in sediment chemistry. F5 is mostly associated with PCBs, but PCBs are much more strongly associated with F1, which is not a significant factor in the full model. Based on the parsimony of the habitat-only model and its similarity in fit to the full model, the habitat-only model is best. Regardless, due to the poor fit of all models, this result is highly uncertain. Total fines, F5, and F6 are significant factors in the full model (t-test, $p < 0.05$), although F6 is essentially uninterpretable. The coefficients for significant variables are similar (within a factor of 2).
	habitat-only	4	205	216	0.147	37.6	0.125	yes		1	6	
	limited combined	8	205	227	0.174	37.9	0.117	no	yes	3	0	
	limited chemistry	6	211	227	0.120	40.3	0.0613	yes		4	1	
	full	10	200	228	0.215	35.8	0.165	yes		3	4	
Richness	null	2	803	809	--	5,330	-0.0167	--		6	52	The addition of habitat variables significantly improves the models. The full model is best based on several statistics, including the AIC, PRESS, and r^2 values (adjusted and predicted), suggesting that the full model is not overfit. In the full model, total fines, F1, and F5 are significant factors (t-test, $p < 0.05$). F1 has the highest coefficient among the variables, although the coefficient for total fines is similar. The coefficient for F5 is approximately 3 times less than that for F1.
	habitat-only	4	780	791	0.190	4,424	0.156	yes		5	7	
	limited combined	8	736	759	0.453	3,413	0.349	yes	yes	8	6	
	limited chemistry	6	740	757	0.426	3,541	0.325	yes		9	5	
	full	10	731	759	0.483	3,271	0.376	yes		8	7	
Shannon-Wiener H'	null	2	185	191	--	32.2	-0.0167	--		7	54	The addition of habitat variables does not improve the model that appears to be best, the limited chemistry model. This is based partly on the rule of parsimony (e.g., having 6 variables rather than 8 or 10) and partly on reasonably good fit. The full and limited combined models, while having better fit statistics, do not include any significant variables (t-test, $p < 0.05$) that are not also included in the limited chemistry model (i.e,. F1).
	habitat-only	4	168	179	0.149	28.2	0.11	yes		8	10	
	limited combined	8	115	138	0.465	19.6	0.383	yes	no	7	4	
	limited chemistry	6	116	133	0.453	19.8	0.377	yes		7	5	
	full	10	116	143	0.473	19.7	0.379	no		9	6	
Pielou's J'	null	2	-131	-125	--	2.4	-0.0167	--		6	63	The limited chemistry model is best based on several model statistics (including AIC, BIC, PRESS, predicted r^2, and number of influential points), although the relevance of this result is uncertain due to poor model fit. The addition of habitat variables does not improve the model. F1 is the only significant variable in the full model (t-test, $p < 0.05$).
	habitat-only	4	-132	-121	0.0240	2.4	-0.0114	no		5	6	
	limited combined	8	-139	-117	0.111	2.2	0.0677	yes	no	7	3	
	limited chemistry	6	-141	-125	0.112	2.1	0.0824	yes		5	2	
	full	10	-135	-107	0.097	2.3	0.0245	no		6	3	
SDI (log)	null	2	-34	-29	--	5.3	-0.0167	--		9	50	Q-Q and residual-fitted value plots suggest that there are trends and non-normality in residuals. Log-transformation addresses these issues. The limited chemistry model is best based on several statistics (AIC, BIC, PRESS, and predicted r^2). The inclusion of habitat variables and additional chemical factors does not significantly improve the models. F1 is the only factor significantly related to SDI in the full model (t-test, $p < 0.05$).
	habitat-only	4	-47	-35	0.111	4.8	0.0715	yes		4	8	
	limited combined	8	-91	-68	0.402	3.5	0.313	yes	no	5	4	
	limited chemistry	6	-92	-75	0.399	3.5	0.323	yes		7	5	
	full	10	-91	-63	0.411	3.6	0.303	no		7	6	

Endpoint	Model Type	df	AIC	BIC	Adjusted r^2	PRESS	Predicted r^2	F-test Significant (p < 0.5)?		No. samples with Cook's D > 4/n	No. Samples with DFFITS > 2 × sqrt(p/n)	Notes and Model Selection Rationale
HBI	null	2	147	152	--	32.1	-0.0288	--		3	40	Residual-fitted value plots indicate a trend in residuals suggesting non-linearity, particularly for the habitat-only model. Basic transformations (i.e., log and square root) do not address these trends. Models are based on a small data subset (n = 71, reduced from n = 121). The limited chemistry model is best based on most model statistics (i.e., AIC, BIC, r^2 values, and PRESS). The addition of habitat variables does not improve the models, and only F1, F2, and F4 are significantly related to HBI (based on the full model; t-test, p < 0.05). F1, F2, and F4 have similar coefficients, all within a factor of 2.
	habitat-only	4	127	136	0.266	24.4	0.219	yes		5	2	
	limited combined	8	95	113	0.555	19.2	0.385	yes	no	6	1	
	limited chemistry	6	92	106	0.564	17.9	0.426	yes		7	1	
	full	10	99	122	0.541	21.1	0.324	no		7	1	
C. dilutus survival	null	2	-85	-80	--	2.2	-0.0216	--		4	59	Models are based on a data subset (n = 94, reduced from n = 121). The full model is best due to its improvement after adding the full list of chemical factors (rather than the limited subset). And, because the PRESS is low and predicted r^2 is high for the full model, it is not likely overfit. Adding habitat variables does not significantly improve the model, so the full model is perhaps not as parsimonious as it could be. Regardless, chemistry factors appear to be more important than either TOC or total fines for predicting *C. dilutus* survival. Due to the weakness of the model fit, this result is highly uncertain. F1, F2, F5, and F6 are significantly related to *C. dilutus* survival (based on the full model; t-test, p < 0.05); F6 is essentially uninterpretable. The coefficients for significant factors are all fairly similar. Due to poor model fits, these results are uncertain.
	habitat-only	4	-86	-76	0.0310	2.3	-0.0856	yes		5	2	
	limited combined	8	-100	-80	0.200	2.2	-0.0179	yes	no	7	1	
	limited chemistry	6	-103	-87	0.206	2.1	0.0404	yes		8	1	
	full	10	-112	-87	0.309	1.9	0.125	yes		7	0	
C. dilutus biomass	null	2	-25	-20	--	4.1	-0.0216	--		4	52	Models are based on a data subset (n = 94, reduced from n = 121). The full model is best due to its improvement model after adding the full list of chemical factors (rather than the limited subset). And, because the PRESS is low and predicted r^2 is high for the full model, it is not likely overfit. Adding habitat variables does not significantly improve the model, so the full model is perhaps not as parsimonious as it could be. Regardless, chemistry factors (i.e., F2, F4, and F5) appear to be more important than either TOC or total fines for predicting *C. dilutus* biomass (based on the full model; t-test, p < 0.05); F2 has the highest coefficient, and the coefficients of F4 and F5 are similar, about half that of F2. Due to the weakness of the model fit, this result is highly uncertain.
	habitat-only	4	-26	-16	0.0300	4.2	-0.0301	no		5	4	
	limited combined	8	-34	-13	0.141	3.9	0.0326	yes	no	5	3	
	limited chemistry	6	-33	-18	0.120	3.9	0.0467	yes		5	4	
	full	10	-42	-16	0.227	3.5	0.123	yes		7	3	
H. azteca survival	null	2	-12	-7	--	6.3	-0.0167	--		9	68	Q-Q plots suggest that residuals are not normally distributed. Transforming survival data does not address these residual issues. The limited combined model is the best, based on several statistics (i.e., AIC, BIC, and PRESS) as well as parsimony (8 parameters vs. 10 in the full model). The addition of the full set of chemical factors does not improve the model, but habitat factors are important. TOC, total fines, F2, and F3 are significantly related to *H. azteca* survival (based on the full model; t-test, p < 0.05), although total fines is positively related to survival. Total fines, F2, and F3 have the largest (similar) coefficients; the coefficient (absolute) for TOC is approximately 3 times less than those for the other variables.
	habitat-only	4	-30	-19	0.151	5.5	0.115	yes		9	4	
	limited combined	8	-41	-19	0.248	5.0	0.187	yes	yes	11	4	
	limited chemistry	6	-34	-17	0.189	5.3	0.145	yes		7	2	
	full	10	-41	-13	0.261	5.0	0.198	no		11	5	
H. azteca biomass	null	2	-23	-18	--	5.8	-0.0167	--		7	59	The limited combined model is best based on all model statistics, and because the inclusion of habitat variables and the limited subset of chemical factors significantly improves the model (although the full set of chemical factors did not improve the model further). Due to the poor fit of all models, this result is highly uncertain. TOC, total fines, F2, F3, and F4 are significantly related to *H. azteca* survival (based on the full model; t-test, p < 0.05), although total fines is positively related to biomass. Total fines, F2, and F3 have the largest coefficients (similar); the coefficients for TOC and F4 are approximately 2 to 3 times less than those for other variables. Due to poor model fits, these results are uncertain.
	habitat-only	4	-36	-25	0.116	5.2	0.0879	yes		8	9	
	limited combined	8	-55	-33	0.269	4.4	0.227	yes	yes	7	5	
	limited chemistry	6	-42	-25	0.168	4.9	0.135	yes		7	7	
	full	10	-53	-25	0.267	4.4	0.215	no		6	6	

Endpoint	Model Type	df	AIC	BIC	Adjusted r^2	PRESS	Predicted r^2	F-test Significant ($p < 0.5$)?		No. samples with Cook's $D > 4/n$	No. Samples with DFFITS > $2 \times \sqrt{(p/n)}$	Notes and Model Selection Rationale
A. abdita survival	null	2	-4	-1	--	1.3	-0.0784	--		2	20	Models are based on a data subset (n = 27 [only LPRSA locations], reduced from n = 121). Diagnostic plots indicate that residuals are heteroskedastic, and that extreme values likely influence the regressions. Log-transformation does not address these issues. F6 is collinear with other variables (VIF > 5), so it is excluded from the full model. F6 is essentially uninterpretable chemistry information, so it does not contribute to an interpretable model. Based on ANOVA, no model is a significant improvement over the null model. Therefore, the null model is best: *A. abdita* survival is not related to habitat variables or chemical factors (included in the analysis herein). In the full model, only total fines is significantly related to survival, and that relationship is positive.
	habitat-only	4	-4	2	0.0680	1.4	-0.145	no		3	3	
	limited combined	8	-6	5	0.229	3.2	-1.67	no	yes	5	4	
	limited chemistry	6	1	9	-0.0490	2.6	-1.17	no		3	0	
	full	9	-4	8	0.201	4.0	-2.32	no		6	4	

Note: descriptions of the statistics presented in Table 4-5 are provided in Section 4.1.2.3 “MLR Model Comparison”. Shaded rows indicate the “best” model based on multiple statistics and best professional judgment.

[a] Two separate, sequential F-tests were run by adding a set of models into an ANOVA; these tests compared each model to the model added previously to the ANOVA to determine if there was a significant reduction in model error. The null model was not tested because it was always the first model entered into the ANOVA (with no prior model for comparison). The sequence of models added to the first ANOVA was null, habitat-only, limited combined, and full model, so that the test results indicated the effect of adding habitat variables before chemistry (i.e., whether chemistry improved the model significantly when accounting for habitat effects). The sequence of models added to the second ANOVA was null, limited chemistry, and limited combined models, so that the test indicated the effect of adding habitat variables after chemistry (i.e., whether habitat improved the model significantly when accounting for chemistry effects); the full model was not analyzed in the second ANOVA because the comparison to the limited combined model was the same as for the first ANOVA. In Table 4-4, results from the first ANOVA are reported for the habitat-only, limited combined (left-hand value), and full model; results from the second ANOVA are reported for the limited combined (right-hand value) and limited chemistry models.

ANOVA – analysis of variance
AIC – Akiake’s information criterion
BIC – Bayesian information criterion
df – degrees of freedom
HBI – Hilsenhoff Biotic Index
LPRSA – Lower Passaic River Study Area
MLR – multiple linear regression
n – sample size
p – number of explanatory variables
PCB – polychlorinated biphenyl
PRESS – predicted residual error sum of squares
VIF – variance inflation factor
TOC – total organic carbon
SDI – Swartz’s Dominance Index

4.2.2.3 Discussion of Method 1 and Method 2 results

The results of Method 1 and Method 2 analyses were generally consistent across benthic invertebrate community metric and sediment toxicity test endpoints, in that similar model types were selected (among the five types described in Section 4.1.2.3). In general, the MLR models had poor predictive power, as evidenced by several statistics (Tables 4-4 and 4-5). Sediment chemistry was nearly always an important factor in the selected MLR models, with few exceptions (i.e., abundance and *A. abdita* survival in Table 4-5).

Of the response variables modeled, sediment chemical factors and total fine-grained sediment appeared to be the dominant explanatory variable(s) (in terms of magnitude and significance of coefficients) in many full MLRs. Chemical factors were significant in models for richness, Shannon-Wiener H', Pielou's J', HBI, *C. dilutus* survival and biomass, and *H. azteca* survival and biomass. Habitat variables were also significant in many of those models, although in some cases, they had coefficients of the opposite sign (suggesting that habitat variables may ameliorate stress).

Based on all F-test results comparing the relative importances of habitat variables and sediment chemical factors (Tables 4-4 and 4-5), sediment chemical factors were more important than habitat variables[51] in one-half of model evaluations (11 of 22), and were equally as important as habitat variables in nearly one-half of the remaining model evaluations (9 of 22). In the case of abundance (Table 4-5), habitat variables were more important than chemical factors, and in the case of *A. abdita* survival (Table 4-5), neither factor improved the model fit relative to the null model.

The results from the modeling of abundance were conflicting; based on Method 1 and Method 2, the full model and habitat-only model were selected, respectively. The relative importance of habitat variables and chemical factors switched between the two methods, with chemical factors being marginally more important in the full model of Method 1, and habitat variables being more important in the habitat-only model of Method 2. Due to these conflicting results, the results from both methods were uncertain. Abundance may either increase or decrease in response to environmental stress, so the lack of a clear and consistent linear relationship with chemical or habitat variables is not unreasonable.

A. abdita survival appeared to be very weakly related or unrelated to sediment chemical factors or habitat variables based on the analysis. In Method 1, the full model was selected because a significant improvement over the null model required that all variables be included. In Method 2, the null model was selected because, even with all chemical and habitat variables, a significant model was not developed. Small sample

[51] Sediment chemical factors were more important than habitat variables when adding habitat variables to the MLR did not improve model fit after controlling for chemical factors, but adding chemical factors did improve the model fit after controlling for habitat variables (in a separate F-test).

size may have played a part in the lack of observed significance in the Method 2 analysis; only 27 samples were available to develop *A. abdita* survival models.

Models developed for HBI tended to be the strongest, with adusted r^2 values of 0.678 and 0.564 for Method 1 and Method 2, respectively. These models indicated that chemical factors were more important for predicting HBI than habitat variables. One uncertainty associated with these models in particular was the comparatively small datasets on which they were based (i.e., freshwater samples only). Still, the sample sizes for HBI model development were 72 and 71 for Method 1 and Method 2, respectively, which should have been sufficient to observe significant trends.

4.2.3 T20 and T50 threshold comparison

LPRSA locations with sediment chemistry exceeding one or more T20 or T50 are described in Table 4-6. This information is also presented in Appendix B, Table B7-1.

Table 4-6. T20 and T50 screen of LPRSA sediment chemistry data

Location ID	No. of Chemicals Exceeding T20	No. of Chemicals Exceeding T50
LPRT01A	35	26
LPRT01B	36	25
LPRT01C	35	26
LPRT01D	37	29
LPRT01E	35	24
LPRT01F	36	30
LPRT01G	37	28
LPRT02A	37	27
LPRT02B	37	28
LPRT02C	36	30
LPRT02D	36	30
LPRT02E	36	32
LPRT02F	37	31
LPRT03A	37	31
LPRT03B	36	30
LPRT03C	36	31
LPRT03D	37	32
LPRT03E	37	31
LPRT03F	36	31
LPRT04A	24	3
LPRT04B	37	31
LPRT04C	37	30
LPRT04D	36	32

Table 4-6. T20 and T50 screen of LPRSA sediment chemistry data

Location ID	No. of Chemicals Exceeding T20	No. of Chemicals Exceeding T50
LPRT04E	37	30
LPRT04F	36	28
LPRT05A	37	31
LPRT05B	37	31
LPRT05C	35	31
LPRT05D	37	32
LPRT05E	36	28
LPRT05F	36	30
LPRT06A	37	30
LPRT06B	37	31
LPRT06C	36	31
LPRT06D	36	30
LPRT06E	36	30
LPRT06F	36	31
LPRT07A	33	27
LPRT07B	36	31
LPRT07C	37	33
LPRT07D	37	31
LPRT07E	37	33
LPRT08A	37	30
LPRT08B	36	31
LPRT08C	37	34
LPRT08D	35	25
LPRT08E	30	13
LPRT09A	36	27
LPRT09B	31	22
LPRT09C	33	19
LPRT09D	36	31
LPRT09E	36	30
LPRT09F	36	31
LPRT09G	27	1
LPRT09H	27	6
LPRT10A	36	31
LPRT10B	36	31
LPRT10C	35	30

Table 4-6. T20 and T50 screen of LPRSA sediment chemistry data

Location ID	No. of Chemicals Exceeding T20	No. of Chemicals Exceeding T50
LPRT10D	28	15
LPRT10E	36	32
LPRT11A	30	20
LPRT11B	36	31
LPRT11C	33	20
LPRT11D	34	29
LPRT11E	36	31
LPRT11F	35	27
LPRT11G	37	34
LPRT12A	36	31
LPRT12B	36	31
LPRT12C	36	31
LPRT12D	36	23
LPRT12E	37	32
LPRT13A	33	27
LPRT13B	36	29
LPRT13C	36	31
LPRT13D	28	2
LPRT13E	35	28
LPRT13F	33	23
LPRT13G	36	29
LPRT14A	33	22
LPRT14B	33	26
LPRT14C	30	23
LPRT14D	34	24
LPRT14E	31	22
LPRT14F	31	23
LPRT15A	33	23
LPRT15B	36	29
LPRT15C	28	20
LPRT15D	30	17
LPRT15E	30	21
LPRT15F	28	22
LPRT16A	26	9
LPRT16B	30	21

Table 4-6. T20 and T50 screen of LPRSA sediment chemistry data

Location ID	No. of Chemicals Exceeding T20	No. of Chemicals Exceeding T50
LPRT16C	25	11
LPRT16D	27	21
LPRT16E	33	24
LPRT17A	34	27
LPRT17D	31	24

ID – identification
LPRSA – Lower Passaic River Study Area
T20 – 20% probability of observing toxicity
T50 – 50% probability of observing toxicity

As can be seen in Table 4-5, at least one T50 value was exceeded (resulting in the prediction of toxicity) at every LPRSA SQT location. Given that sediment toxicity was not actually observed at all LPRSA SQT locations (Section 3.2.1 or Table 3-6), this result (and its implication for risk characterization in the BERA) is questionable. Discussion of uncertainty associated with the T20 and T50 screen of LPRSA data is provided in Section 4.3.1.

4.3 UNCERTAINTY ANALYSES

The following sections describe analyses of uncertainty associated with the sediment chemistry LOE. Sections 4.3.1 through 4.3.3 describe several quantitative analyses of uncertainty, and Section 4.3.4 provides additional qualitative statements of uncertainty.

4.3.1 Reliability analysis

4.3.1.1 T20 and T50 values

Table 4-7 presents results of the reliability of the T50 values for predicting toxicity in the LPRSA relative to reference conditions. As noted in Section 4.2.4, at least one T50 value was exceeded at all LPRSA locations, so all locations were predicted to be toxic. As a result, there were neither true nor false negatives associated with the reliability analysis (Table 4-7). This also resulted in sensitivity and specificity values of 1 and 0, respectively, which clearly indicated that the T50 was unable to correctly classify LPRSA locations where there was no toxicity relative to reference conditions. Although the T50 correctly predicted toxicity where toxicity was observed in the LPRSA, it did so only by predicting toxic effects at every location. These results highlight the significant uncertainty associated with the T50, which may be an inappropriate (i.e., overly conservative) criterion for categorizing LPRSA locations in the sediment chemistry LOE.

Table 4-7. Reliability of T50 values for predicting toxicity using site-specific LPRSA toxicity

Reliability Statistic[a]	*C. dilutus* Survival	*C. dilutus* Biomass	*H. azteca* Survival	*H. azteca* Biomass	*A. abdita* Survival
Sample size	71	71	98	98	27
True positives	13	58	50	34	15
False positives	58	13	48	64	12
True negatives	0	0	0	0	0
False negatives	0	0	0	0	0
Type I error rate	0%	0%	0%	0%	0%
Type II error rate	82%	18%	49%	65%	44%
Total error rate	82%	18%	49%	65%	44%
Sensitivity	1	1	1	1	1
Specificity	0	0	0	0	0
Precision	0.18	0.82	0.51	0.35	0.56
False discovery rate	0.82	0.18	0.49	0.65	0.44

[a] Reliability statistics are described in the text (Section 4.1.4.1).

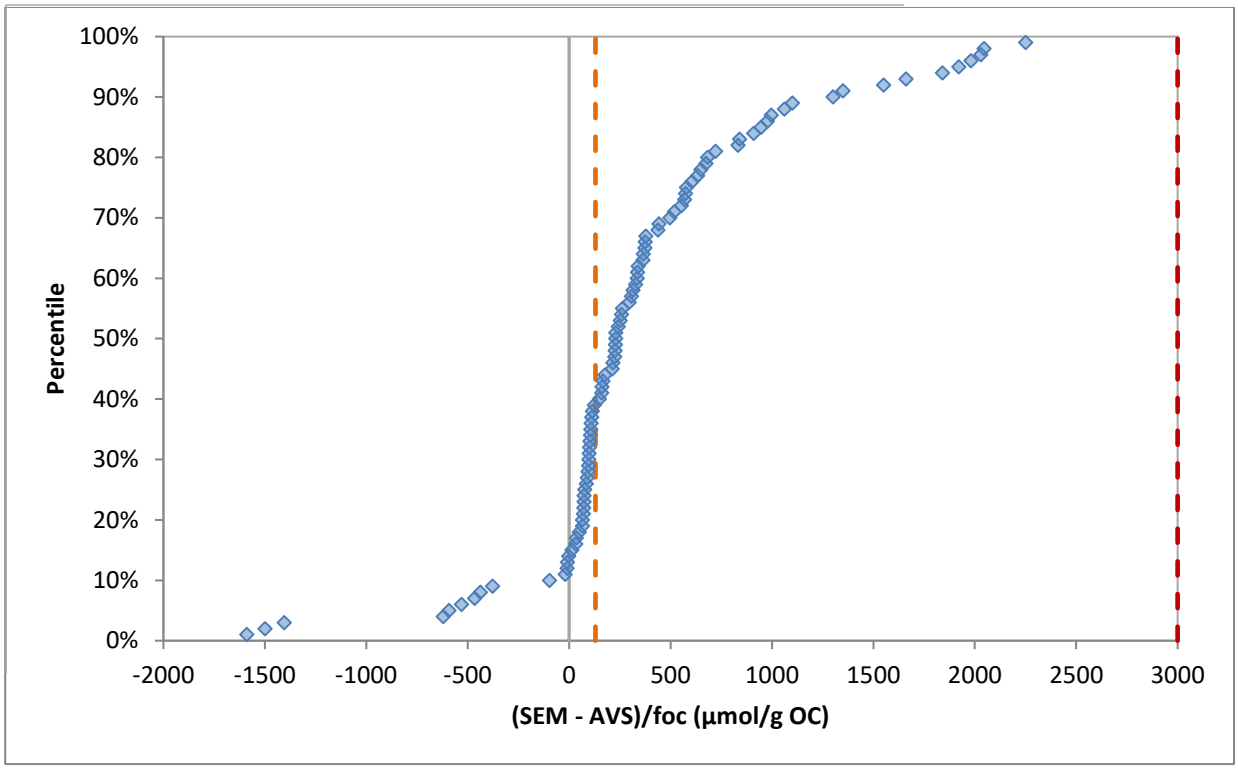
LPRSA – Lower Passaic River Study Area

T50 – 50% probability of observing toxicity

4.3.2 SEM-AVS analysis

In the LPRSA, the OC-normalized SEM-AVS concentrations[52] for SQT sediment samples ranged from -1,590 to 2,250 µmol/g OC, with an average value of 359 µmol/g OC. All of the OC-normalized SEM-AVS concentrations fell below the 3,000 µmol/g OC threshold identified as the threshold above which there is a high likelihood of toxicity (USEPA 2005b) (i.e., no SEM concentrations with high likelihood of toxicity), and 40% (39 of 98) of the SQT samples had OC-normalized SEM-AVS concentrations that were below the 130 µmol/g OC threshold (i.e., no toxicity expected) (Figure 4-1). Of the remaining samples, 60% (59 of 98) had OC-normalized SEM-AVS concentrations that were within the range identified as being uncertain as a predictor of toxicity (USEPA 2005b) (i.e., > 130 µmol/g OC and ≤ 3,000 µmol/g OC). In addition, only 12 of the 59 sediment samples with OC-normalized SEM-AVS concentrations that were within the uncertain level of toxicity had concentrations greater than 1,000 µmol/g OC.

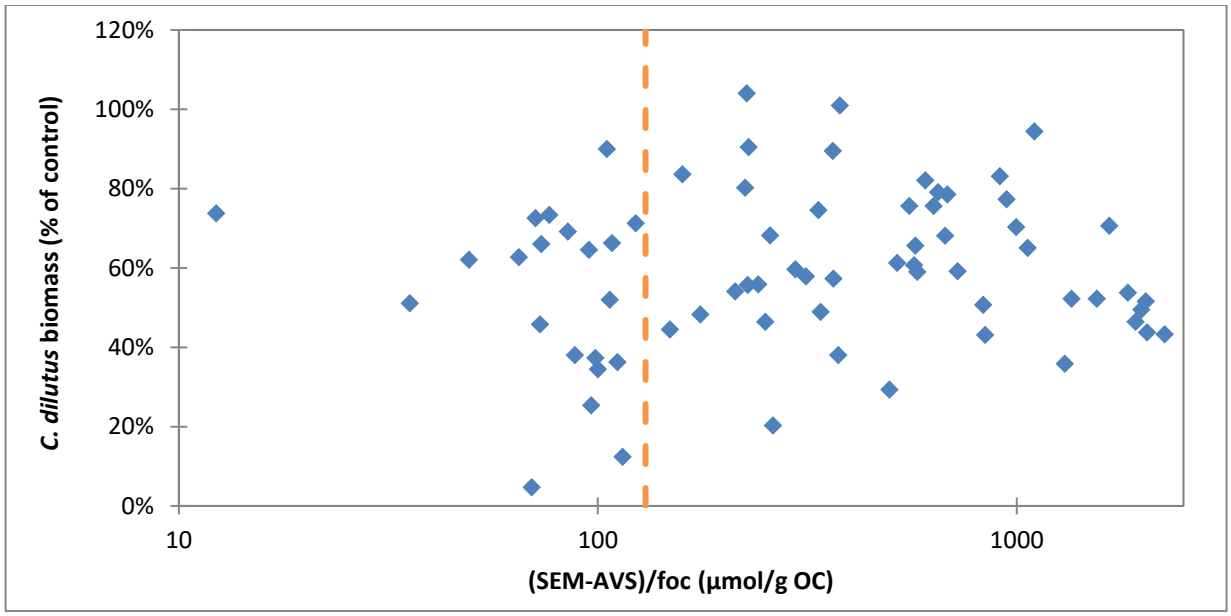
[52]Values are based on data presented in Appendix K. The OC-normalized SEM-AVS concentrations are calculated as: $(\Sigma SEM–AVS)/f_{oc}$; ΣSEM is the sum of SEM (i.e., cadmium, copper, nickel, lead, silver, and zinc), and f_{oc} is the fractional value of OC (reported in Appendix K as percent TOC).



Note: Vertical lines mark toxicity thresholds at 130 µmol/g OC and 3,000 µmol/g OC (USEPA 2005b).

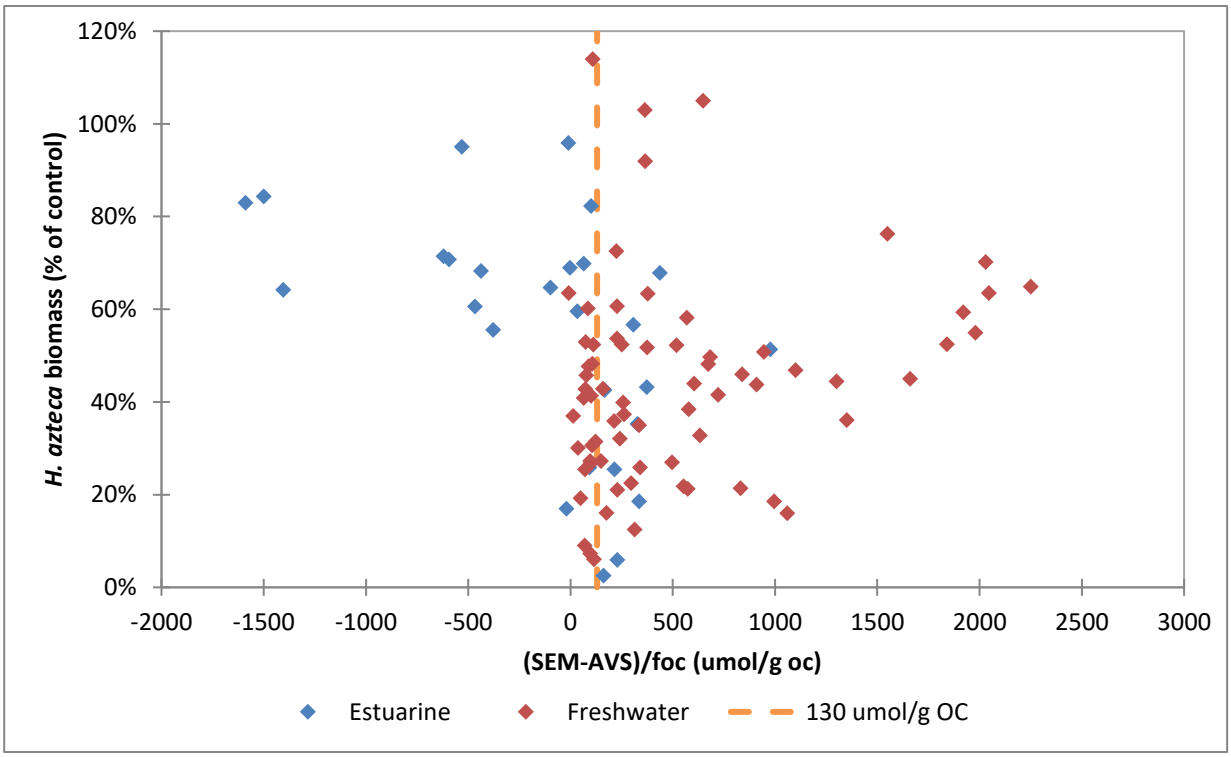
Figure 4-1. Cumulative frequency distribution of SEM-AVS normalized to OC for LPRSA SQT sediment samples

Example plots of LPRSA toxicity response data and OC-normalized SEM-AVS provided in Figures 4-2 through 4-4 do not show a clear relationship between toxic responses and OC-normalized SEM-AVS concentrations measured in LPRSA sediment. Other endpoints (not shown) have similarly unclear or negligible relationships with SEM-AVS.



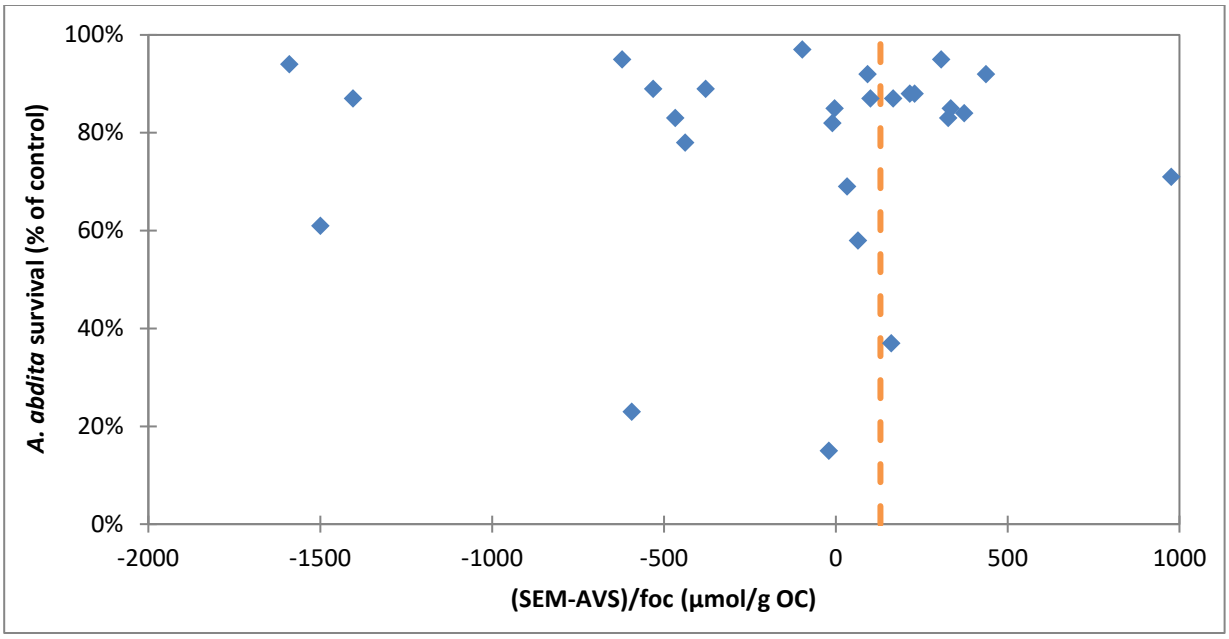
Note: *C. dilutus* biomass data are control normalized and presented as percent of control. Vertical line marks the low toxicity threshold at 130 µmol/g OC (USEPA 2005b); no values exceed the 3,000 µmol/g OC threshold.

Figure 4-2.*C. dilutus* biomass and (SEM-AVS)/f_{OC} in the LPRSA, fall 2009



Note: *H. azteca* biomass data are control normalized and presented as percent of control. Vertical line marks the low toxicity threshold at 130 µmol/g OC (USEPA 2005b); no values exceed the 3,000 µmol/g OC threshold. Different symbols are used to show standard ("freshwater") and salinity-acclimated ("estuarine") *H. azteca* test results.

Figure 4-3.*H. azteca* biomass and (SEM-AVS)/f_{OC} in the LPRSA, fall 2009



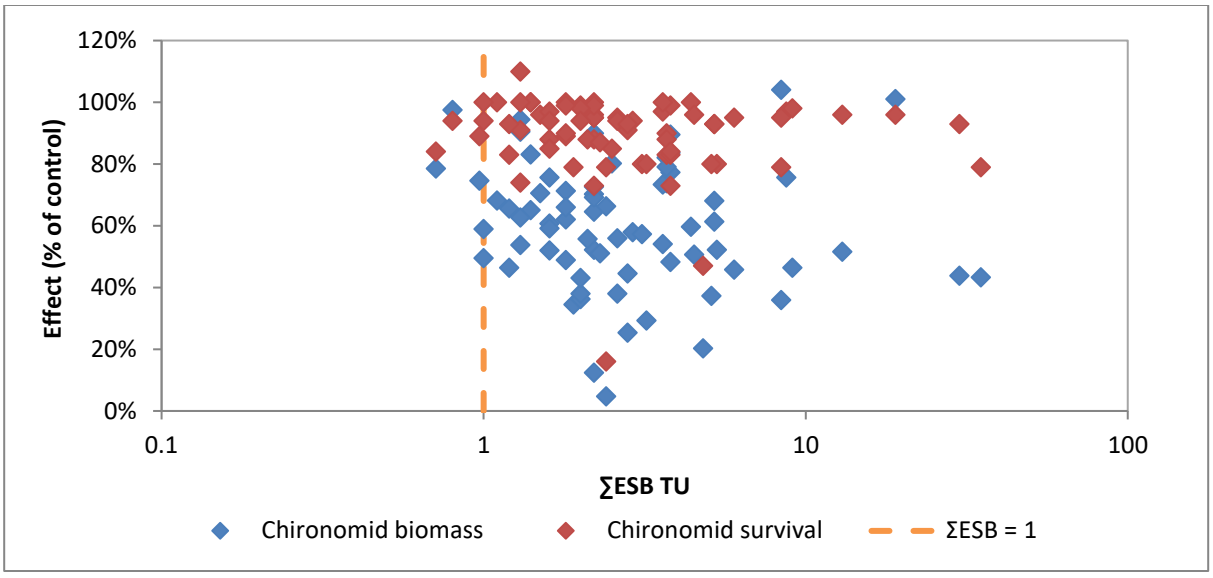
Note: *A. abdita* survival data are control normalized and presented as percent of control. Vertical line marks the low toxicity threshold at 130 µmol/g OC (USEPA 2005b); no values exceed the 3,000 µmol/g OC threshold.

Figure 4-4.*A. abdita* survival and (SEM-AVS)/f_{OC} in the LPRSA, fall 2009

Based on the evaluation of SEM-AVS in LPRSA sediment presented above, OC-normalized SEM-AVS observed in LPRSA samples is not a useful predictor of sediment toxicity and is of limited value in assessing benthic community risk. The only exception appears to be *H. azteca* biomass measured in sediments from estuarine toxicity test locations (interstitial salinity ≥ 5 ppt), but the relationship is inconsistent with that of the same test endpoint measured in freshwater toxicity tests. Therefore, the relationship between *H. azteca* biomass and SEM-AVS remains uncertain.

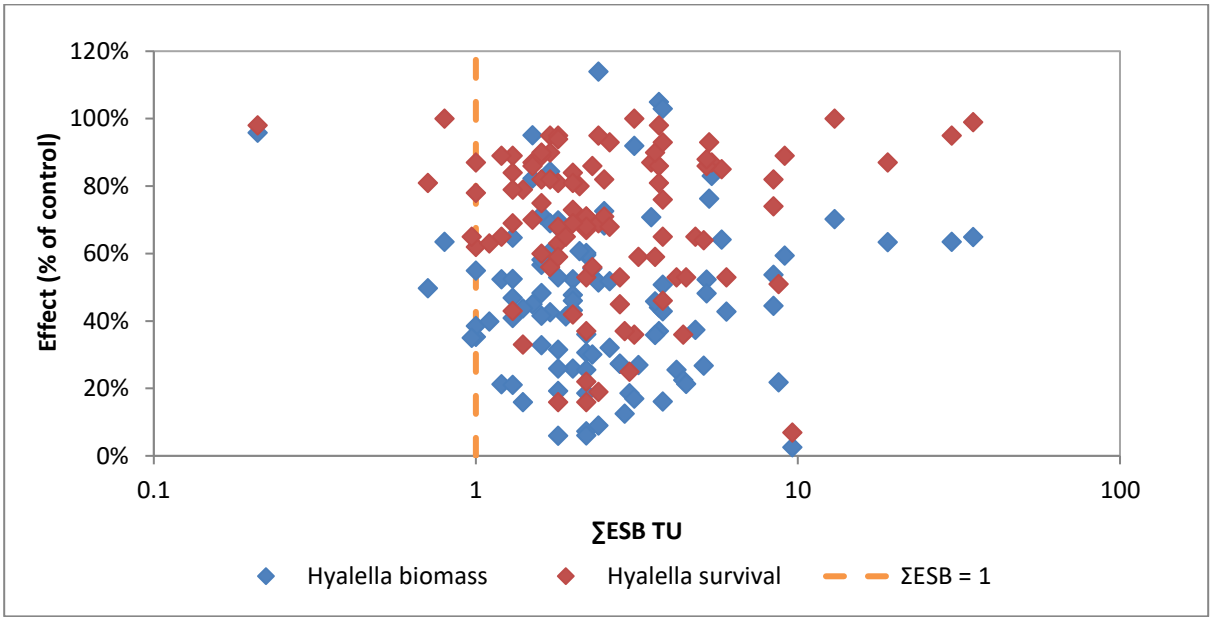
4.3.3 Equilibrium partitioning-based analysis of 34 PAHs

In the LPRSA, the 34-PAH ΣESB TUs for SQT sediment samples ranged from 0.21 to 35, with an average TU of 3.7. The TUs from 91 of 98 LPRSA locations (93%) were greater than 1, which USEPA (2003) suggests may result in toxicity in sensitive aquatic species. Figures 4-5 through 4-7 provide visual comparisons of calculated TU values to sediment toxicity test results. These three figures each show an inconsistent or nonexistent relationship between PAHs and toxicity.



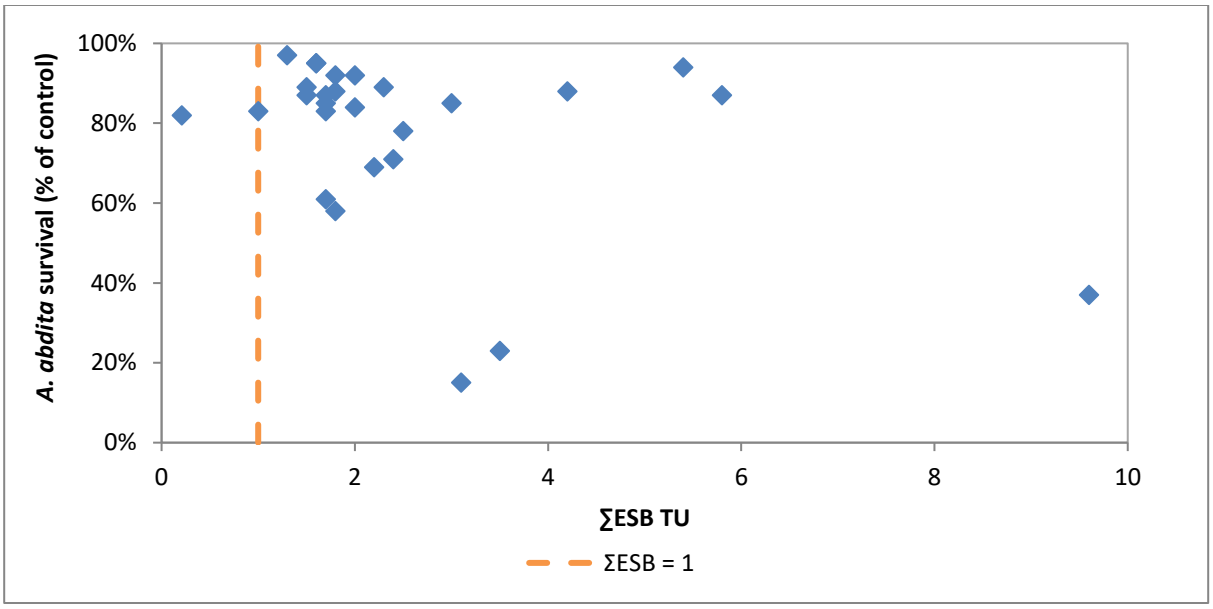
ΣESB TU – sum equilibrium partitioning sediment benchmark toxic units

Figure 4-5.Relationship between *C. dilutus* toxicity and 34-PAH TUs



ΣESB TU – sum equilibrium partitioning sediment benchmark toxic units

Figure 4-6.Relationship between *H. azteca* toxicity and 34-PAH TUs



∑ESB TU – sum equilibrium partitioning sediment benchmark toxic units

Figure 4-7.Relationship between *A. abdita* survival and 34-PAH TUs

Based on the analysis of 34-PAH TUs from LPRSA SQT data, it appears that the EqP approach is not a useful predictor of LPRSA sediment toxicity and is of limited value in assessing benthic community risk.

4.3.4 Additional points of uncertainty

In addition to uncertainties described in Sections 4.3.1 through 4.3.3, the following uncertainties are associated with the sediment chemistry LOE:

- Correlation-based analyses (i.e., Spearman rank correlation) do not determine causality, but causality is assumed to be related to the strength of significant correlations (r-values); in complex systems, multiple correlations may exist, including both independent covariance (e.g., multiple chemicals from a similar source) and dependent covariance (interrelation) (e.g., chemical concentrations and sediment grain size). Interrelated factors can also interact (i.e., additive, antagonistic, or synergistic effects), potentially leading to non-linear and non-monotonic relationships. These complex interactions are not identified using correlation analysis, and they may weaken correlations and result in inaccurate inference.
- Spearman correlation analysis may not be appropriate for benthic response variables that are non-monotonically related to environmental stress (e.g., abundance) (Weisberg et al. 1997); abundance was treated as monotonic in this LOE. This uncertainty has been addressed in the benthic invertebrate community LOE (Section 2).

- The interpretation of PCs and factors (derived using PCA and EFA, respectively) is somewhat subjective. The assignment of groups or single chemicals to PCs or factors according to their loading values introduces a level of inherent error into the interpretation of PCA or EFA results because PCs and factors only explain a portion of the variance in the original variables. By focusing on only the first few PCs or factors from each PCA or EFA (i.e., those that explain the greatest amount of the overall variance in the datasets), the uncertainty associated with the interpretation of PCs or factors (in terms of the original chemical variables) is minimized to a reasonable extent.
- Although MLR model fits were significant for all but one benthic invertebrate response variable (i.e., *A. abdita* survival based on Method 2), the ability of the MLR models to predict effects is questionable. Model statistics (Tables 4-4 and 4-5) indicate poor fits for nearly all models. This may be due to several factors, including weak relationships between chemical factors, habitat variables, and benthic response variables or relationships that exist but are nonlinear. Nonlinear relationships were not evaluated as part of the multivariate assessment of SQT data.
- SEM-AVS is difficult to measure precisely, and measurements are irreproducible among laboratories (Hammerschmidt and Burton 2010). LPRSA sediment analyses were conducted by a single laboratory, thereby reducing the uncertainty associated with interlaboratory error, but the accuracy of measurements remains uncertain.
- Using T20 and T50 values for the sediment chemistry LOE is likely inappropriate for defining ecological risks in a BERA. Field et al. (2002) note that the "LRM approach provides a useful framework for conducting screening-level assessments…" and that the model does not consider site-specific bioavailability or exposure. Furthermore, the T20 and T50 values are based on field-collected sediments rather than controlled sediments (Field et al. 2002), so they are likely to contain more hazardous substances than the one for which the criteria were developed. For example, a T50 value for total PAHs may be based on sediment that contains PAHs, PCBs, metals, and any number of other stressors. As a result, it is likely that T20 and T50 values may overestimate the toxicity of the single contaminants for which they are reported. The quantitative analysis of uncertainty incorporates reference area toxicity data to establish a study-specific mean-quotient threshold, rather than applying generic, non-site-specific criteria.
- Mean-quotients, like T20s and T50s, are based on criteria primarily meant for screening purposes and that are based (at least in part) on data from field-collected sediment (with mixtures of sediment contaminants) (Long et al. 1995; MacDonald et al. 2000; Wenning et al. 2005).

- The logistic modeling approach used to derive T20 and T50 values does not address the magnitude of the relationship between concentration and "toxic" response. The T20 and T50 values correspond to 20 and 50% probabilities, respectively of observing > 10% reduction in amphipod survival and a significant difference from the negative control results. Therefore, it is not possible to determine what level of effect can be expected (i.e., what magnitude of risk to invertebrates) from exceedances of T20 and T50 values. The use of mean-quotient values as part of the quantitative analysis of uncertainty addresses the magnitude of possible effects by scaling sediment concentrations to those correlated in the literature with toxic impacts.
- A high mERMq threshold could not be developed for non-urban reference conditions because acceptable *A. abdita* survival was observed even at the highest calculated mERMq. The quantitative analysis of uncertainty for the sediment chemistry LOE, comparing LPRSA conditions to non-urban reference conditions, was based on mERMq thresholds developed using the urban reference condition. This resulted in a more conservative application of sediment chemistry LOE weights for the quantitative analysis of uncertainty based on the comparison of LPRSA data to non-urban reference conditions.
- Sediment concentrations were screened in Appendix A to the BERA to identify COPECs relevant to benthic invertebrates, but those COPECs were not directly addressed in the sediment chemistry LOE described herein. Table 4-8 provides a summary of the sediment chemistry COPECs for benthic invertebrates determined in the SLERA (Appendix A); Table 4-8 also details which COPECs were addressed in part through the mean-quotient, T20/T50 screening analyses or bivariate and multivariate analyses. Due to limited availability of screening-level sediment guidelines, not all COIs from LPRSA sediments were screened in the SLERA or analyzed further in this LOE. It is possible, though unlikely, that benthic invertebrate risks in the LPRSA are caused (at least in part) by COIs that were not evaluated.

Table 4-8. Overlap between surface sediment COPECs for benthic invertebrates and sediment chemistry LOE analyses

COPEC Determined in SLERA	Evaluated Using Bivariate and Multivariate Analyses?[a]	Criterion Available?[a]			
		ERM	PEC	T20	T50
Metals					
Antimony	X			X	X
Arsenic	X	X	X	X	X
Cadmium	X	X	X	X	X
Chromium	X	X	X	X	X
Cobalt[b]					

Table 4-8. Overlap between surface sediment COPECs for benthic invertebrates and sediment chemistry LOE analyses

COPEC Determined in SLERA	Evaluated Using Bivariate and Multivariate Analyses?[a]	Criterion Available?[a]			
		ERM	PEC	T20	T50
Copper	X	X	X	X	X
Lead	X	X	X	X	X
Mercury	X	X	X	X	X
Methylmercury[b]					
Nickel	X	X	X	X	X
Selenium[b]					
Silver	X	X		X	X
Vanadium[b]					
Zinc	X	X	X	X	X
Butyltin					
TBT[b]					
PAHs					
1-methylnaphthalene	X			X	X
1-methylphenanthrene	X			X	X
2,6-dimethylnaphthalene				X	X
2-methylnaphthalene	X	X		X	X
Acenaphthene	X	X		X	X
Acenaphthylene	X	X		X	X
Anthracene	X	X	X	X	X
Benzo(a)anthracene	X	X	X	X	X
Benzo(a)pyrene	X	X	X	X	X
Benzo(b/j)fluoranthene				X	X
Benzo(e)pyrene[b]					
Benzo(g,h,i)perylene	X			X	X
Benzo(k)fluoranthene				X	X
Chrysene	X	X	X	X	X
Dibenzo(a,h)anthracene	X	X		X	X
Fluoranthene	X	X	X	X	X
Fluorene	X	X	X	X	X
Indeno(1,2,3-cd)pyrene	X			X	X
Naphthalene	X	X	X	X	X
Perylene				X	X

Table 4-8. Overlap between surface sediment COPECs for benthic invertebrates and sediment chemistry LOE analyses

COPEC Determined in SLERA	Evaluated Using Bivariate and Multivariate Analyses?[a]	Criterion Available?[a]			
		ERM	PEC	T20	T50
Phenanthrene		X	X	X	X
Pyrene	X	X	X	X	X
Total benzofluoranthenes[b]					
Total HPAHs					
Total LPAHs					
Total PAHs	X	X	X		
SVOCs					
2,4-Dinitrotoluene[b]					
2,6-Dinitrotoluene[b]					
4-Methylphenol[b]					
Bis-(2-ethylhexyl)phthalate	X				
Butylbenzylphthalate[b]					
Dibenzofuran[b]					
Diethylphthalate[b]					
Dimethylphthalate[b]					
Di-n-butylphthalate[b]					
Di-n-octylphthalate[b]					
Isophorone[b]					
n-Nitrosodiphenylamine[b]					
Pentachlorophenol[b]					
Phenol					
PCB aroclors					
Aroclor-1254[b]					
Aroclor-1260[b]					
PCB Congeners					
Total PCB Congeners	X	X	X	X	X
PCB TEQ – Fish[b]					
PCDDs/PCDFs					
2,3,7,8-TCDD[b]					
PCDD/PCDF TEQ - Fish[b]					
Total TEQ-Fish[b]					

Table 4-8. Overlap between surface sediment COPECs for benthic invertebrates and sediment chemistry LOE analyses

COPEC Determined in SLERA	Evaluated Using Bivariate and Multivariate Analyses?[a]	Criterion Available?[a]			
		ERM	PEC	T20	T50
Organochlorine pesticides					
4,4'-DDD				X	X
4,4'-DDE		X		X	X
4,4'-DDT				X	X
Aldrin[b]					
alpha-BHC[b]					
alpha-Chlordane[b]	X				
beta-BHC[b]					
Dieldrin	X		X	X	X
Endosulfan I[b]					
Endosulfan II[b]					
Endrin			X		
gamma-BHC (Lindane)			X		
gamma-Chlordane[b]					
Heptachlor[b]					
Heptachlor epoxide			X		
Hexachlorobenzene[b]	X				
Methoxychlor[b]					
Total chlordane			X		
Total DDx	X	X	X		
Herbicides					
2,4,5-TP (Silvex) [b]					
VOCs					
1,2,3-Trichlorobenzene[b]					
1,2,4-Trichlorobenzene[b]					
1,4-Dichlorobenzene[b]					
1,4-Dioxane[b]					
Acetone[b]					
m, p-Xylene[b]					
Toluene[b]					
Wet chemistry					

Table 4-8. Overlap between surface sediment COPECs for benthic invertebrates and sediment chemistry LOE analyses

COPEC Determined in SLERA	Evaluated Using Bivariate and Multivariate Analyses?[a]	Criterion Available?[a]			
		ERM	PEC	T20	T50
Cyanide[b]					

Note: Surface sediment COPECs for benthic invertebrates were determined in the SLERA (Appendix A).

[a] Values of "X" indicate either that a COPEC was evaluated using the bivariate or multivariate statistical analyses, or that the specified criterion is available for the given COPEC.

[b] COPEC was not directly addressed in the sediment chemistry LOE. COPECs may have been indirectly addressed as part of sums; for example benzo[a]pyrene is a component of both total HPAHs and total PAHs.

BHC – benzene hexachloride
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
ERM – effect range-median
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
LOE – line of evidence
LPAH – low-molecular-weight polycyclic aromatic hydrocarbon
SLERA – Screening Level Ecological Risk Assessment
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
PEC – probable effects concentration
SLERA – screening-level ecological risk assessment
SVOC – semivolatile organic compound
T20 – 20% probability of observing toxicity
T50 – 50% probability of observing toxicity
TCDD – tetrachlorodibenzo-*p*-dioxin
TEQ – toxic equivalent

4.3.5 Quantitative analysis of uncertainty

The sediment chemistry LOE approach that is being carried forward into the WOE analysis (Section 6.1 of the BERA main text) is based on the screen of LPRSA sediment chemistry data against T20 and T50 values from the literature (Section 4.2.4). To address key uncertainties associated with that approach (Sections 4.3.1 and 4.3.4), a quantitative analysis was conducted (Appendix B, Table B7-2 and B7-3). The results from that approach are described in the following sections.

4.3.5.1 Mean-quotient threshold comparison

Based on reference area sediment toxicity data and calculated mERMq and mPECq values, the following low and high mERMq and mPECq thresholds were established for screening LPRSA sediment chemistry data (i.e., mERMq and mPECq values):

- Low mERMq thresholds:
  - Jamaica Bay: 0.020
  - Mullica River/Great Bay: 0.055
- High mERMq thresholds:
  - Jamaica Bay: 1.8
  - Mullica River/Great Bay: > 0.27

- Low mPECq threshold: < 0.076
- High mPECq threshold: 1.9

The low mPECq threshold could not be accurately determined because both *C. dilutus* and *H. azteca* survival were < 75% of the negative control at the lowest calculated mPECq value from above Dundee Dam (0.076). As a result, freshwater LPRSA locations could not be classified as having no potential for toxicity (i.e., all were given a weight of at least 0.5). Similarly, the high mERMq threshold for Mullica River/Great Bay could not be determined because there was > 75% survival of *A. abdita* (relative to control) at the highest calculated mERMq. In this case, it was not possible to accurately assign a high weight (1.0) to LPRSA data; as a result, the thresholds for Mullica River/Great Bay were not used. Instead, the Jamaica Bay mERMq thresholds were used to evaluate the sediment chemistry LOE for the comparison of LPRSA data to both urban and non-urban reference areas, which resulted in a more conservative analysis.

Of the 98 LPRSA locations where toxicity and sediment chemistry were measured, 72 (73%) were categorized as having unclear potential for sediment toxicity (as defined by the reference area datasets). No station was categorized as having negligible potential for toxicity, and 26 of 98 locations (27%) were categorized as having high potential for toxicity. The full results of the mean-quotient threshold comparison are presented in Appendix B, Tables B7-2 and B7-3.

The result of screening LPRSA sediment chemistry data using the T20 and T50 values (Section 4.2.4) is in stark contrast to the result of using the mean-quotient approach. The latter approach resulted in only 27% of LPRSA SQT locations being classified as having high potential for toxicity, while the approach using the T20 and T50 values resulted in 100%. Uncertainties associated with the mean-quotient approach are presented in Section 4.3.5.2.

4.3.5.2 Mean-quotient threshold reliability analysis

The reliability of mean-quotient thresholds for predicting toxicity in the LPRSA relative to reference conditions was evaluated similarly to the reliability of T50 values (Section 4.3.1.1), (but using mERMq or mPECq for estuarine or freshwater locations, respectively).[53] The results of this evaluation are presented in Table 4-9.

Table 4-9. Reliability of high mean-quotient threshold for predicting toxic impacts using site-specific LPRSA toxicity

Reliability Statistic[a]	*C. dilutus* Survival[b]	*C. dilutus* Biomass[b]	*H. azteca* Survival[b]	*H. azteca* Biomass[b]	*A. abdita* Survival[b]
Sample size	71	71	98	98	27

[53] Freshwater and estuarine locations are defined as those with interstitial water salinities < 5 ppt or ≥ 5 ppt, respectively.

Reliability Statistic[a]	*C. dilutus* Survival[b]	*C. dilutus* Biomass[b]	*H. azteca* Survival[b]	*H. azteca* Biomass[b]	*A. abdita* Survival[b]
True positives	2	7	14	10	10
False positives	6	1	12	16	8
True negatives	52	12	36	48	4
False negatives	11	51	36	24	5
Type I error rate	15%	72%	37%	24%	19%
Type II error rate	8%	1%	12%	16%	30%
Total error rate	24%	73%	49%	41%	48%
Sensitivity	0.15	0.12	0.28	0.29	0.67
Specificity	0.90	0.92	0.75	0.75	0.33
Precision	0.25	0.88	0.54	0.38	0.56
False discovery rate	0.75	0.13	0.46	0.62	0.44

[a] Reliability statistics are described in Section 4.1.4.1.

[b] Toxicity data are control normalized.

LPRSA – Lower Passaic River Study Area

There appears to be a trade-off in conservatism between the use of logistic regression model-based T20s or T50s and the mean-quotient approach. Specifically, T50s are associated with excessive false positives (i.e., 100% of LPRSA locations were predicted to be toxic), and mean-quotients are associated with numerous false negatives, particularly for *C. dilutus* biomass (72% error rate). Prediction error rates for *H. azteca* and *A. abdita* endpoints were more balanced when using the mean-quotient approach, although total error was slightly higher when using the mean-quotient approach to predict *A. abdita* survival (44% compared to 48%).

Sensitivities and specificities also highlight the trade-off in conservatism between T50s and mean-quotients. For example, the sensitivities are 1.0 for all endpoints of T50s (Table 4-7), whereas specificity is very high for the mean-quotient approach (Table 4-9). This indicates that T50s will always predict toxicity correctly when it is actually observed, whereas mean-quotients will generally be able to correctly predict if toxicity will not occur when it is not actually observed. The mean-quotient approach is more reliable than the T50, in that the former can predict both toxicity (i.e., sensitivities range from 0.12 to 0.67) and non-toxicity (i.e., specificities range from 0.33 to 0.92). Overall, the mean-quotient approach is more reliable (although less conservative) than the T50 approach for predicting impacts (relative to reference area conditions) on *C. dilutus* survival, *H. azteca* survival and biomass, and *A. abdita* survival.

4.4 SUMMARY

Based on the various discussions of sediment chemistry presented in Section 4.2 (and subsections) and uncertainties in Section 4.3 (and subsections), sediment chemistry data appear to be significantly related to observable effects on benthic invertebrates (i.e., sediment toxicity test results or benthic community metrics). Sediment chemistry

data are significantly but weakly correlated with sediment toxicity or benthic community metric variables (Sections 4.2.1). This is corroborated by multivariate statistics (Sections 4.2.2 and 4.2.3), which indicate that sediment chemistry-based factors are related to benthic response variables. MLR models perform poorly, so it is unreasonable to use those models to predict effects on invertebrates.

Habitat variables were often significantly related to benthic response variables, although they tended to be less than or equally important to sediment chemical factors. Similarly, there were no apparent relationships between OC-normalized SEM-AVS (Section 4.3.2) or 34-PAH sum TUs (Section 4.3.3) and sediment toxicity endpoints.

The comparison of LPRSA sediment chemistry data to T20 and T50 values resulted in every SQT location in the LPRSA exceeding the T50 value for at least one chemical. T20 and T50 values cannot reliably predict sediment toxicity in the LPRSA because they are conservative to the point of predicting toxic impacts at 100% of LPRSA SQT locations (Section 4.2.4). There is a clear bias toward type II errors. However, the results of the T20 and T50 screen, although contrary to other sediment chemistry analyses presented in this LOE, will be carried forward into the WOE analysis (Section 6.1 of the BERA main text), consistent with USEPA guidance (USEPA 2015a, b).

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APPENDIX Q. LOWER PASSAIC RIVER STUDY AREA UPPER 9-MILE EVALUATION ECOLOGICAL RISK ASSESSMENT

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Acronyms

AE	assimilation efficiency
ACR	acute-to-chronic ratio
AWQC	ambient water quality criteria
BBP	butyl benzyl phthalate
BEHP	bis(2-ethylhexyl) phthalate
BERA	baseline ecological risk assessment
BHC	benzene hexachloride
BLM	biotic ligand model
BMF	biomagnification factor
bw	body weight
CCC	criterion continuous concentration
CF	conversion factor
CMC	criterion maximum concentration
COI	chemical of interest
COC	chemical of concern
COPEC	chemicals of potential ecological concern
CPG	Cooperating Parties Group
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
dw	dry weight
DDT	dichlorodiphenyltrichloroethane
EC50	concentration that causes a non-lethal effect in 50% of an exposed population
Eco-SSL	ecological soil screening level
ED10	dose that corresponds to a 10% increase in an adverse effect of an exposed population
EF	exceedance factor
EPC	exposure point concentration

FAV	final acute value
FCV	final chronic value
FFS	focused feasibility study
FIR	food ingestion rate
FMR	field metabolic rate
FS	feasibility study
GE	gross energy
HPAH	high-molecular-weight polycyclic aromatic hydrocarbon
HQ	hazard quotient
LC50	concentration that is lethal to 50% of an exposed population
LOAEL	lowest-observed-adverse-effect-level
LOE	line of evidence
LOEC	lowest-observed-effect concentration
LPAH	low-molecular-weight polycyclic aromatic hydrocarbon
LPR	Lower Passaic River
LPRSA	Lower Passaic River Study Area
ME	metabolizable energy
mERMq	mean effects range-median quotient
mPECq	mean probable effect concentration quotient
NJDEP	New Jersey Department of Environmental Protection
NOAEL	no-observed-adverse-effect-level
ORNL	Oak Ridge National laboratory
PAH	polycyclic aromatic hydrocarbon
PAR	pathways analysis report
PCB	polychlorinated biphenyl
PCDD	polychlorinated dibenzo-*p*-dioxin
PCDF	polychlorinated dibenzofuran
ppth	parts per thousand
RM	river mile

SFF	small forage fish
SI	sediment ingestion
SIR	sediment ingestion rate
SLERA	screening-level ecological risk assessment
SQT	sediment quality triad
SSD	species sensitivity distribution
SUF	site use factor
SVOC	semivolatile organic compound
TBT	tributyltin
TCDD	tetrachlorodibenzo-*p*-dioxin
TEF	toxic equivalency factor
TEQ	toxic equivalent
total DDx	sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT, and 4,4′-DDT)
TRV	toxicity reference value
TSV	toxicity screening value
UCL	upper confidence limit (on the mean)
USEPA	US Environmental Protection Agency
VOC	volatile organic compound
WIR	water ingestion rate
WOE	weight of evidence
ww	wet weight

1 Introduction

The following provides an additional assessment as part of the the baseline ecological risk assessment (BERA), wherein ecological risks are evaluated on a smaller spatial scale, focusing on the upper 9 miles of the Lower Passaic River Study Area (LPRSA) (defined as river mile [RM] 8.3 to RM 17.4 [Dundee Dam]) as part of the Upper 9-Mile planning on the LPRSA. This document is consistent with comments provided by the US Environmental Protection Agency (USEPA) though discussions and formal comments in November and December 2017, January 2018, and March 5, 2019, and via additional communications between the Cooperating Parties Group (CPG) and USEPA from January through June 2019.

An evaluation of ecological risks in the following spatial areas of the LPRSA is provided in this document:

- RM 8.3 to RM 17.4 (Dundee Dam)
- RM 8.3 to RM 14.7
- RM 14.7 to RM 17.4 (Dundee Dam)

This additional upper 9-mile risk assessment focused on chemicals of potential ecological concern (COPECs) identified by receptor group and risk assessment line of evidence (LOE) in the screening-level ecological risk assessment (SLERA). COPECs were identified as chemicals of interest (COIs) with maximum LPRSA concentrations or doses greater than or equal to toxicity screening values (TSVs). Table 1-1 summarizes the ecological COPECs for ecological receptor groups.

Table 1-1. Summary of ecological COPECs based on the LPRSA SLERA

COPEC	Sediment		Surface Water		Tissue				Diet		
	Benthic Invertebrates	Aquatic Plants	Invertebrates, Fish, Aquatic Plants, and Zooplankton	Amphibians/ Reptiles	Benthic Invertebrates	Fish	Fish Egg	Bird Egg	Fish	Birds	Mammals
Metals											
Antimony	X	X									
Arsenic	X	X			X	X					X
Cadmium	X	X	X		X	X			X	X	X
Chromium	X	X	X	X	X	X			X	X	
Cobalt	X	X			X				X		
Copper	X	X	X	X	X	X			X	X	X
Lead	X	X	X	X	X	X				X	X
Mercury	X	X	X	X	X	X	X	X	X	X	X
Methylmercury[a]	X				X	X	X	X	X	X	X
Nickel	X	X		X	X				X	X	X
Selenium	X	X	X		X	X			X	X	X
Silver	X		X	X	X	X					
Vanadium	X	X			X				X	X	X
Zinc	X	X	X	X	X	X			X	X	X
Butyltins											
TBT	X		X						X		
PAHs											
1-Methylnaphthalene	X										
1-Methylphenanthrene	X										
2,6-Dimethylnaphthalene	X										

Table 1-1. Summary of ecological COPECs based on the LPRSA SLERA

COPEC	Sediment		Surface Water		Tissue				Diet		
	Benthic Invertebrates	Aquatic Plants	Invertebrates, Fish, Aquatic Plants, and Zooplankton	Amphibians/ Reptiles	Benthic Invertebrates	Fish	Fish Egg	Bird Egg	Fish	Birds	Mammals
2-Methylnaphthalene	X										
Acenaphthene	X	X									
Acenaphthylene	X										
Anthracene	X		X								
Benzo(a)anthracene	X		X								
Benzo(a)pyrene	X		X						X		
Benzo(b/j)fluoranthene	X										
Benzo(e)pyrene	X										
Benzo(g,h,i)perylene	X										
Benzo(k)fluoranthene	X										
Chrysene	X										
Dibenzo(a,h)anthracene	X										
Fluoranthene	X		X								
Fluorene	X										
Indeno(1,2,3-cd)pyrene	X										
Naphthalene	X										
Perylene	X										
Phenanthrene	X										
Pyrene	X		X								
Total benzofluoranthenes	X										
Total HPAHs	X				X	X				X	X

Table 1-1. Summary of ecological COPECs based on the LPRSA SLERA

COPEC	Sediment		Surface Water		Tissue				Diet		
	Benthic Invertebrates	Aquatic Plants	Invertebrates, Fish, Aquatic Plants, and Zooplankton	Amphibians/ Reptiles	Benthic Invertebrates	Fish	Fish Egg	Bird Egg	Fish	Birds	Mammals
Total LPAHs	X				X	X				X	
Total PAHs	X								X		
SVOCs											
2,4-Dinitrotoluene	X										
2,6-Dinitrotoluene	X										
4-Methylphenol	X										
BEHP	X		X								
BBP	X		X								
Dibenzofuran	X										
Diethylphthalate	X										
Dimethylphthalate	X										
Di-n-butylphthalate	X										
Di-n-octylphthalate	X										
Isophorone	X										
n-Nitrosodiphenylamine	X										
Pentachlorophenol	X										
Phenol	X										
VOCs											
1,2,3-Trichlorobenzene	X										
1,2,4-Trichlorobenzene	X										
1,4-Dichlorobenzene	X										

Table 1-1. Summary of ecological COPECs based on the LPRSA SLERA

COPEC	Sediment		Surface Water		Tissue				Diet		
	Benthic Invertebrates	Aquatic Plants	Invertebrates, Fish, Aquatic Plants, and Zooplankton	Amphibians/ Reptiles	Benthic Invertebrates	Fish	Fish Egg	Bird Egg	Fish	Birds	Mammals
1,4-Dioxane	X										
Acetone	X										
m, p-Xylene	X										
Toluene	X										
Trichloroethene				X							
PCBs											
Aroclor 1254	X										
Aroclor 1260	X										
Total PCBs	X		X		X	X	X	X	X	X	X
PCB TEQ[b]	X		X		X	X		X	X	X	X
PCDDs/PCDFs											
2,3,7,8-TCDD	X		X		X	X					
PCDD/PCDF TEQ[b]	X		X		X	X	X	X	X	X	X
Total TEQ[b]	X		X		X	X	X	X	X	X	X
Organochlorine Pesticides											
4,4'-DDD	X										
4,4'-DDE	X		X								
4,4'-DDT	X		X								
Aldrin	X										
alpha-BHC	X										
alpha-chlordane	X										

Table 1-1. Summary of ecological COPECs based on the LPRSA SLERA

COPEC	Sediment		Surface Water		Tissue				Diet		
	Benthic Invertebrates	Aquatic Plants	Invertebrates, Fish, Aquatic Plants, and Zooplankton	Amphibians/ Reptiles	Benthic Invertebrates	Fish	Fish Egg	Bird Egg	Fish	Birds	Mammals
beta-BHC	X										
gamma-BHC (Lindane)	X										
Dieldrin	X		X		X	X		X			X
Endrin	X										
Endosulfan I	X					X					
Endosulfan II	X										
gamma-chlordane	X										
Heptachlor	X										
Heptachlor epoxide	X				X						
Hexachlorobenzene	X		X								
Methoxychlor	X										
Total chlordane	X		X								
Total DDx	X		X		X	X		X	X	X	
Herbicides											
2,4,5-TP (Silvex)	X		X								
Other											
Cyanide	X		X								

Table source: Appendix A, SLERA.

[a] Total mercury is included in addition to methylmercury for tissue and diet COPECs because some of the tissue and dietary TSVs were based on total mercury in tissue. Typically, more than 50% of total mercury in lower-trophic-level fish and invertebrate tissue is in the form of methylmercury. Methylmercury made up 87% of the mercury in LPRSA fish collected in 2009, 84% in blue crab collected in 2009, and 76% in mummichog collected in 2010, but only 14% in bioaccumulation worms.

[b] TEQs are based on fish TEFs for sediment exposure for benthic invertebrates and for surface water exposure for invertebrates, fish, aquatic plants, and zooplankton. TEQs for fish, birds, and mammals are based on TEFs for their respective receptor groups.

BBP – butyl benzyl phthalate
BEHP – bis(2-ethylhexyl) phthalate
BHC – benzene hexachloride
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
LPAH – low-molecular-weight polycyclic aromatic hydrocarbon
LPRSA – Lower Passaic River Study Area
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
SLERA – screening-level ecological risk assessment
SVOC – semivolatile organic compound
TBT – tributyltin
TCDD – tetrachlorodibenzo-*p*-dioxin
TEF – toxic equivalency factor
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TSV – toxicity screening value
VOC – volatile organic compound

The methods used in this additional risk assessment are the same methods used and presented in detail in the BERA, with the exception of the spatial areas evaluated. The BERA evaluated the entire 17.4-mile LPRSA as well as smaller exposure areas (e.g., 2-mile reaches and freshwater or estuarine areas); this evaluation presents risk calculations based on three explicit exposure areas: RM 8.3 to RM 17.4, RM 8.3 to RM 14.7, and RM 14.7 to RM 17.4. The results of this assessment are presented in the following sections by ecological receptor group.

2 Benthic Invertebrate Assessment

As described in the BERA, the benthic invertebrate community was assessed primarily by combining three LOEs (i.e., benthic invertebrate community structure, sediment toxicity test data, and sediment chemistry data), collectively referred to as an sediment quality triad (SQT) assessment. The three SQT LOEs were evaluated individually and then combined using a weight of evidence (WOE) framework.

The potential for risks to benthic invertebrates was also characterized quantitatively using two additional LOEs:

- **Tissue LOE –** comparison of benthic invertebrate tissue concentrations to tissue toxicity reference values (TRVs)
- **Surface water LOE –** comparison of surface water concentrations to water TRVs

Each of these LOEs are presented in the following subsections.

2.1 Sediment Quality Triad Weight of Evidence Assessment

This section presents the assessment of the three LOEs associated with the SQT data from RM 8.3 to RM 17.4 of the LPRSA and combines the LOEs within a WOE risk framework. The methods for individual LOE and overall WOE assessments are discussed in the BERA.[1] The analyses in the BERA provided the site-wide (RM 0 to RM 17.4) risk characterization for benthic invertebrates based on the WOE assessment. Those results were not changed for the analysis herein; rather the BERA results have been summarized only for the area from RM 8.3 to RM 17.4. Because the WOE assessment occurred on a location-by-location basis in the BERA, the results presented herein simply reflect the reduced areas over which the assessment is summarized. The exposure areas over which data are summarized have been revised to reflect three specific exposure areas: RM 8.3 to RM 17.4 (Dundee Dam), RM 8.3 to RM 14.7, and RM 14.7 to RM 17.4.

2.1.1 Results of WOE analysis

Summaries of the WOE analyses of benthic impacts (based on comparisons of LPRSA SQT data to reference datasets representing urban habitats) are provided in Table 2-1.

[1] Specifically, details on the SQT analysis can be found in the main text of the BERA as follows: Section 6.1.1 presents the methods for WOE assessment, Appendix P presents the descriptions and analyses for individual LOEs, and Appendix B presents the associated tables.

Table 2-1. Summary of initial WOE analysis results, urban comparison

Exposure Area	N	No Impact		Low Impact		Medium Impact		High Impact	
		n	%	n	%	N	%	n	%
RM 8.3 to RM 14.7	42	0	0%	12	29%	22	52%	8	19%
RM 14.7 to RM 17.4	7[a]	0	0%	0	0%	4	57%	3	43%
RM 8.3 to RM 17.4	49	0	0%	12	24%	26	53%	11	22%

Note: Reference data representing urban habitats are from Jamaica Bay and the area above Dundee Dam. Medium impact results are characterized in greater detail in the main text of the BERA.

[a] No benthic invertebrate community data were available at LPRT16B, so no WOE result was obtained.

% – percentage of locations
BERA – baseline ecological risk assessment
n – number of locations for each WOE conclusion
N – number of locations in each bioaccumulation modeling zone
RM – river mile
WOE – weight of evidence

Based on the summary presented in Table 2-1, the majority of locations between RM 8.3 and RM 17.4 (26 of 49 locations, or 53%) received a WOE score that indicated a medium impact on the LPRSA benthic community compared to urban reference conditions. Throughout the RM 8.3 to RM 17.4 reach of the LPRSA, no SQT locations had no impact and 12 of 49 locations (24%) had low impacts, leaving 11 LPRSA locations (22%) classified as high impact. These results suggest that benthic invertebrate communities in much of the LPRSA are impacted to some measurable degree, but that substantial uncertainty remains (for medium-impact locations).

Due to a lack of available data from non-urban freshwater reference habitats (e.g., Mullica River), only SQT data from locations in the fluvial estuary zone (defined in the BERA as the area between RM 4 and RM 13) were compared with non-urban reference data (from Mullica River/Great Bay). Of the 49 SQT locations between RM 8.3 and RM 17.4, only 31 SQT locations are from the fluvial estuarine zone, and none of the 31 fluvial estuarine locations are in the RM 14.7 to RM 17.4 modeling zone. The SQT data from the 31 fluvial estuarine SQT locations were compared to non-urban estuarine reference conditions (i.e., Mullica River/Great Bay). Of the 31 fluvial estuarine zone locations noted above, none were classified as no impact, 7 (23%) were classified as low impact, 22 (71%) were classified as medium impact, and 2 (6%) were classified as high impact.

LPRSA SQT locations within the RM 8.3 to RM 14.7 zone are marginally more impacted when compared to non-urban conditions than when compared to urban conditions.[2]

[2] The LPRSA location LPRT16B was not evaluated in the WOE analysis because benthic community data were not collected for that sample. Sediment toxicity and chemistry in the sample were relatively low, suggesting that overall, impacts associated with site-related releases of hazardous materials are also low at that location. Regardless, that location has not been included in summaries of the WOE assessment results.

2.1.2 *Post hoc* characterization of medium-impact locations

A key point of uncertainty that arises in evaluating the results of the WOE analysis is that 53% of LPRSA SQT locations between RM 8.3 and RM 17.4 are categorized as having a medium impact on the benthic community (relative to urban reference conditions); as discussed in the BERA, it is not clear whether a medium impact implies a moderate chemical effect or reflects the uncertainty associated with the effects. A method for re-evaluating medium impacts was presented in the BERA; the results of the *post hoc* re-evaluation for medium-impact locations in the RM 8.3 to RM 17.4 area are presented in Table 2-2.

Table 2-2. Summary of WOE results after *post hoc* medium-impact evaluation, urban comparison

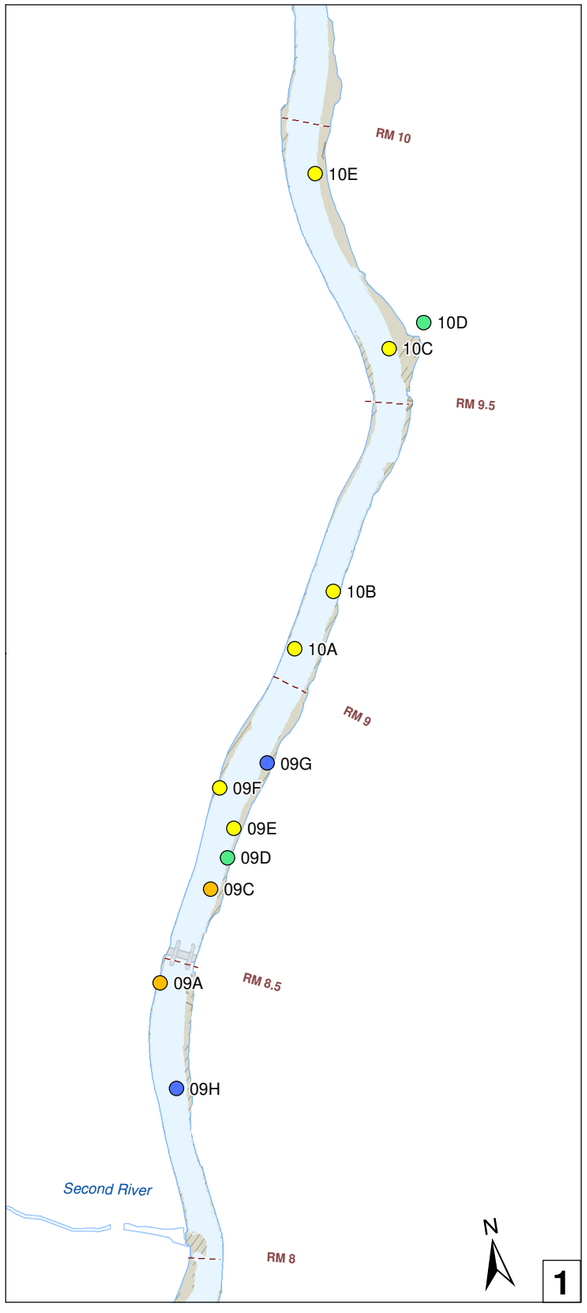
Exposure Area	N	No Impact		Low Impact		Medium Impact						High Impact	
						Likely Low Impact		Medium Impact (Unchanged)		Likely Impacted			
		n	%	n	%	N	%	n	%	n	%	n	%
RM 8.3 to RM 14.7	42	0	0%	12	29%	4	10%	14	33%	4	10%	8	19%
RM 14.7 to RM 17.4	7[a]	0	0%	0	0%	4	57%	0	0%	0	0%	3	43%
RM 8.3 to RM 17.4	49	0	0%	12	24%	8	16%	14	29%	4	8%	11	22%

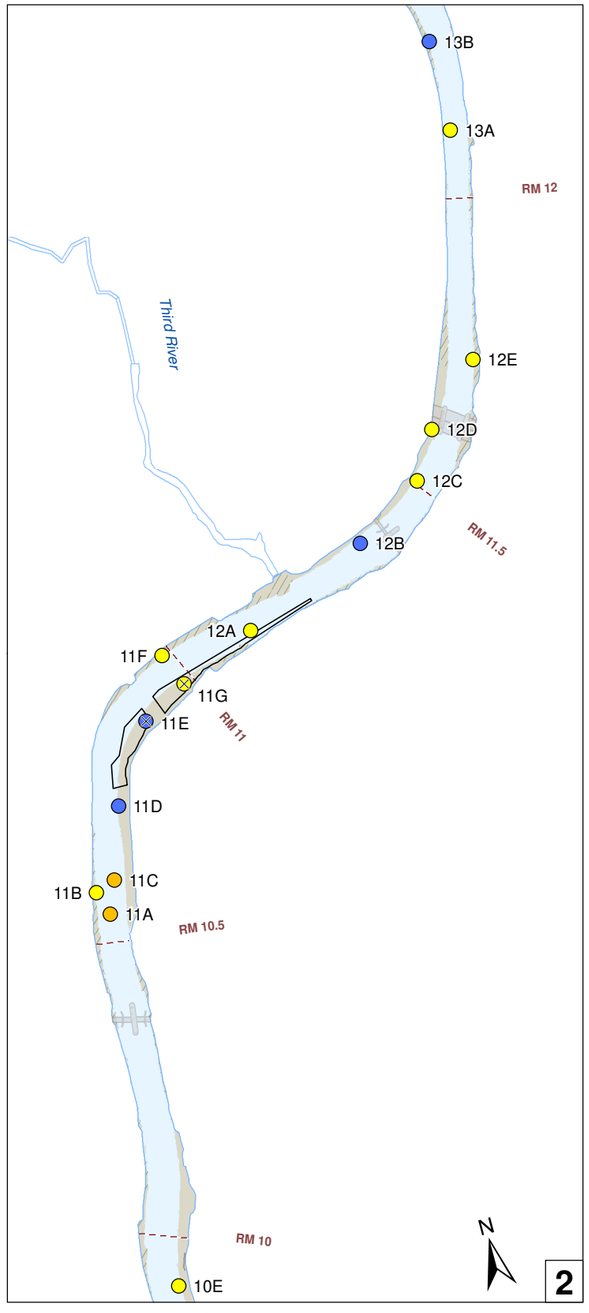
[a] No benthic invertebrate community data were available at LPRT16B, so no WOE result was obtained for that location.

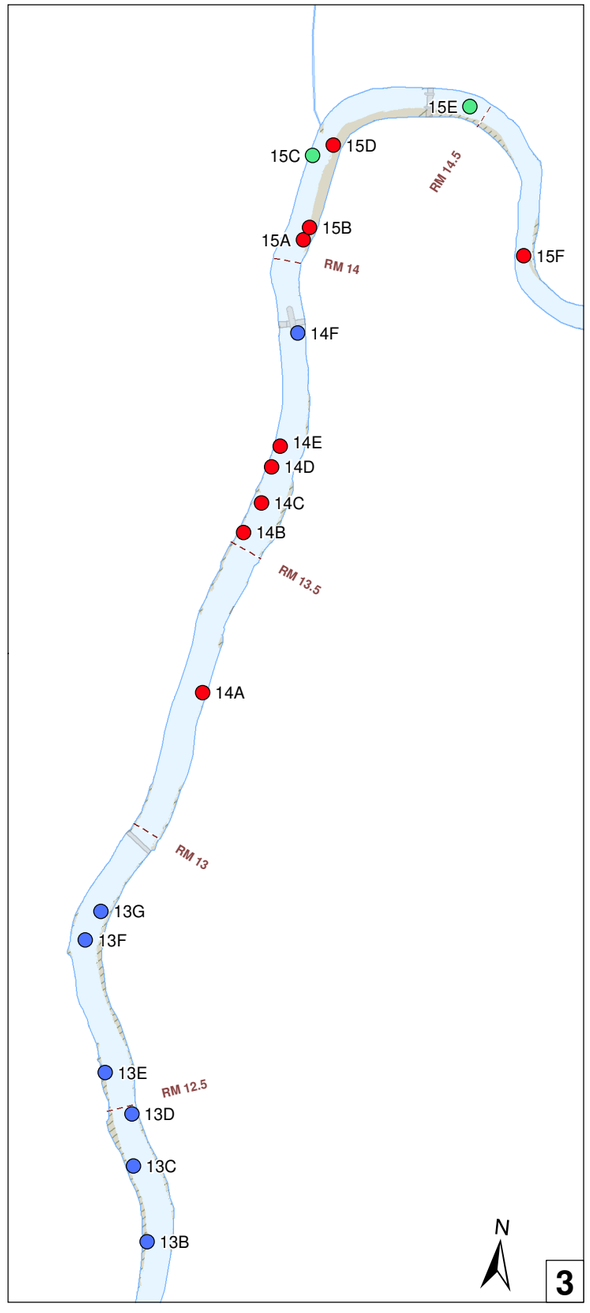
n – sample size (by category)
N – sample size (by bioaccumulation modeling zone or site-wide)
RM – river mile
WOE – weight of evidence

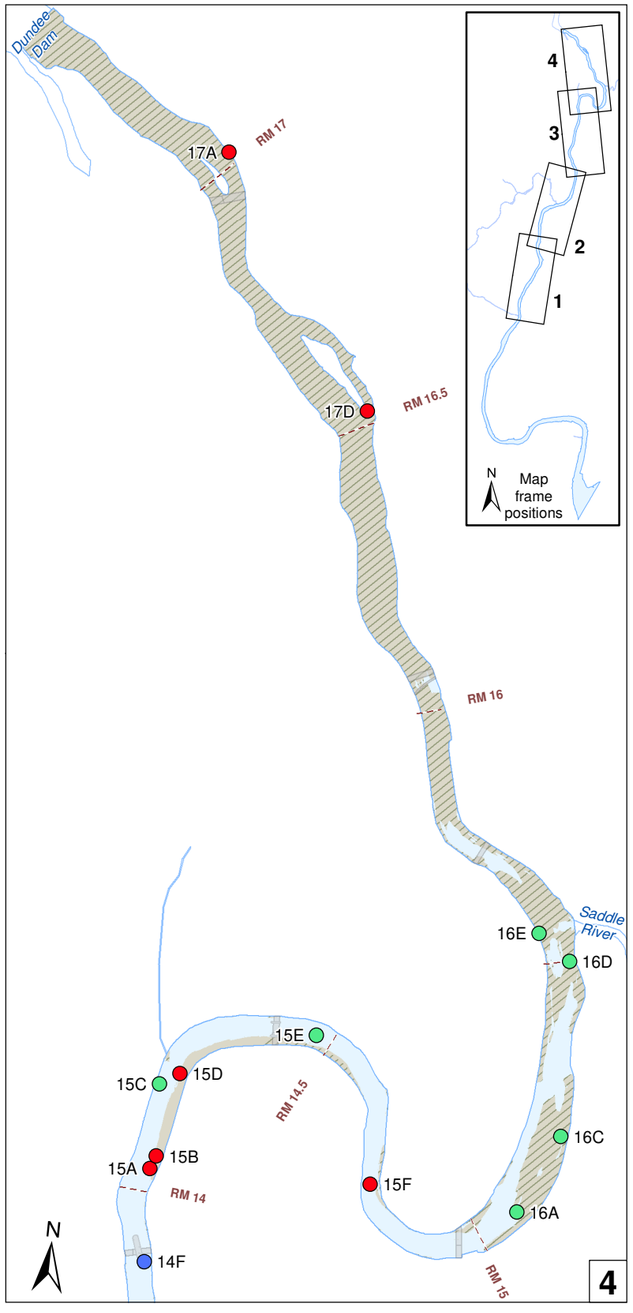
The WOE analysis (based on comparison to urban reference conditions) initially categorized 26 (53%) of 49 LPRSA SQT locations as having a medium impact (Table 2-1). Based on the *post hoc* analysis, 8 of the 26 locations were recategorized as having a likely low impact, and 4 were recategorized as likely impacted. The remaining 14 locations were not recategorized and remain uncertain; the impacts observed at these 14 locations may be moderate, but the cause of the effects (i.e., chemical driven, habitat driven, or a combination of the two) is unclear. Reduction of perceived risk from "medium impact" to "likely low impact" reflects the fact that sediment chemical concentrations in samples from the 8 recategorized SQT locations were low relative to the mean effects range-median quotient (mERMq) threshold (0.361), which was proposed by Hyland et al. (2003), or the mean probable effect concentration quotient (mPECq) threshold (0.5), which was recommended by USEPA to pre-screen reference area sediment samples for use in the analyses herein (see the main text of the BERA). Alternatively, if chemical concentrations exceeded those mean quotient thresholds, and if habitat conditions appeared to be suitable, then the perceived risk increased from "medium impact" to "likely impacted."

The WOE analysis comparing the data from the upper 9 miles of the LPRSA to non-urban reference conditions resulted in 22 locations being categorized as medium impact. Of those, 7 were recategorized as likely low impact and 2 were recategorized as likely impacted. Impacts on benthic invertebrates at the remaining 13 locations remains uncertain. The results of the WOE analyses (after *post hoc* analysis of medium impacts) based on urban and non-urban reference area comparisons are provided in Figures 2-1 and 2-2, respectively. As noted above, the results shown for the non-urban WOE analysis are limited to below RM 13, because insufficient non-urban freshwater reference area data were available to conduct the non-urban WOE analysis.









Windward environmental LLC

0 0.2 0.4 Kilometers

0 0.1 0.2 Miles

SQT weight of evidence
- High impact
- Likely impacted
- Medium impact
- Likely low impact
- Low impact

× Remediated location[a]
- Dredge zone
- River mile
- LPRSA

- Bridge
- Abutment
- Dock
- Mudflat
- Gravel with fines

[a]One sample was collected in the Lister Ave. dredge area at RM 2.8 and two were collected in the RM 10.9 dredge area.

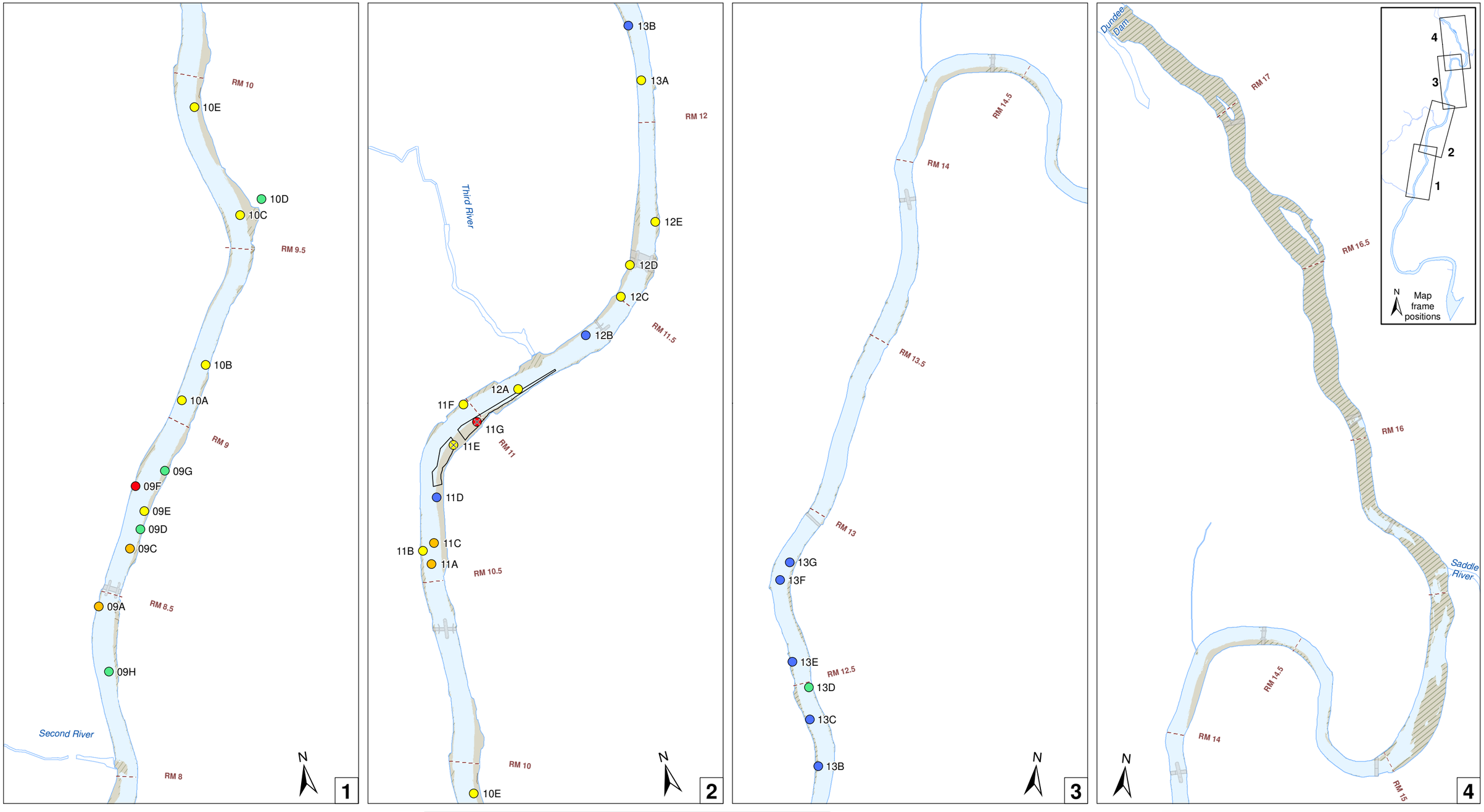
Mudflat areas for ecological receptors are those areas where the river bottom slope is ≤ 6° and the depth is ≥ -2 ft MLLW, based on the 2007 CPG bathymetric survey.

Figure 2-1. Benthic impacts in the LPRSA based on WOE analysis, urban comparison, RM 8.3 to RM 17.4

Appendix Q. Lower Passaic River Study Area Baseline Ecological Risk Assessment

FINAL

Prepared by mikey 5/31/2019, W:\Projects\06-58-01 Passaic RI\Data\GIS\Maps_and_Analysis\BERA\Revised BERA 2016\Addendum_RM8pt3thruDD\6378a_Benthic SQT urban WOE in the LPRSA RM8pt3thruDD_LSM_20160721.mxd



Windward environmental LLC

0 0.2 0.4 Kilometers

0 0.1 0.2 Miles

SQT weight of evidence[a]
- High impact
- Likely impacted
- Medium impact
- Likely low impact
- Low impact

- Remediated location[b]
- Dredge zone
- River mile
- LPRSA

- Bridge
- Abutment
- Dock
- Mudflat
- Gravel with fines

[a]Non-urban freshwater reference data not available for comparison above RM 13.
[b]One sample was collected in the Lister Ave. dredge area at RM 2.8 and two were collected in the RM 10.9 dredge area.

Mudflat areas for ecological receptors are those areas where the river bottom slope is ≤ 6° and the depth is ≥ -2 ft MLLW, based on the 2007 CPG bathymetric survey.

Figure 2-2. Benthic impacts in the LPRSA based on WOE analysis, non-urban comparison, RM 8.3 to RM 17.4

Appendix Q. Lower Passaic River Study Area Baseline Ecological Risk Assessment

FINAL

Prepared by mikey 5/31/2019, W:\Projects\06-58-01 Passaic RI\Data\GIS\Maps_and_Analysis\BERA\Revised BERA 2016\Addendum_RM8pt3thruDD\6446a_Benthic SQT WOE nonUrban in the LPRSA RM8pt3thruDD_LSM_20160721.mxd

2.1.3 Quantitative analysis of uncertainty

Uncertainties associated with the characterization of risks to benthic invertebrates are detailed in the BERA, wherein a quantitative approach was developed and implemented to address several key points of uncertainty associated with the WOE assessment (and individual LOEs). The summary of those results for the RM 8.3 to RM 17.4 area is provided in Table 2-3.

Table 2-3. Summary of bounding WOE analysis results, urban comparison,

Exposure Area	N	No Impact		Low Impact		Medium Impact						High Impact	
						Likely Low Impact		Medium Impact (Unchanged)		Likely Impacted			
		n	%	n	%	N	%	n	%	n	%	n	%
RM 8.3 to RM 14.7	42	7	16.7%	25	59.5%	2	5%	6	14%	2	5%	0	0%
RM 14.7 to RM 17.4	7[a]	1	14%	4	57%	1	14%	0	0%	1	14%	0	0%
RM 8.3 to RM 17.4	49	8	16%	29	59%	3	6%	6	12%	3	6%	0	0%

[a] No benthic invertebrate community data were available for LPRT16B, so no WOE result was obtained for that location.

n – sample size (by category)
N – sample size (by bioaccumulation modeling zone or site-wide)
RM – river mile
WOE – weight of evidence

2.1.4 Conclusions and summary

Based on the characterization of risks to benthic invertebrates in the upper 9 miles of the LPRSA using the WOE approach, the following conclusions can be reached regarding the potential impacts on benthic invertebrates at LPRSA locations between RM 8.3 and RM 17.4 relative to reference conditions:

- Based on the WOE analysis, 11 LPRSA SQT locations had high impacts, 12 locations had low impacts, and 0 locations had no impact. A comparison to non-urban conditions resulted in a marginal increase in risk at fluvial estuarine LPRSA locations between RM 8.3 and RM 14.7; a similar comparison could not be made for tidal freshwater LPRSA locations in between RM 14.7 and RM 17.4.[3]
- Of the 49 SQT locations, 26 (53%) had medium impacts, suggesting that the results from the WOE analysis were relatively uncertain. LOEs either disagreed or had limited agreement, and impacts, which appear to have been moderate,

[3] The comparison of LPRSA data to an acceptable, non-urban freshwater reference dataset was not possible because of data limitations. The upper extent of the fluvial estuarine zone used in the BERA was RM 13; therefore, no LPRSA SQT samples between RM 13 and RM 14.7 were used to make the comparison to non-urban estuarine conditions.

may have been related to sediment chemical exposures or stressful habitat conditions. After additional evaluation of the uncertain impacts, 8 locations were recategorized as likely low impacts and 4 locations were recategorized as likely impacted; 14 locations remained unchanged. That brought the fraction of LPRSA locations with no, low, or likely low impacts to 41% and the fraction of locations with high impacts or likely impacts to 31%. The remaining 29% of LPRSA SQT locations stayed at a relatively unclear level of medium impact. These impacts may reflect a moderate degree of impact.

- A quantitative analysis of two important uncertainties in the WOE—related to establishing reference conditions used to assess LPRSA toxicity response data and benthic community metrics, and how the sediment chemistry LOE is scored—provided a bounding estimate for the WOE analysis. The quantitative analysis resulted in a shift in the WOE outcomes to more locations with scores within the no- and low-impact categories (i.e., 76% rather than 24%). The number of locations with high impacts decreased from 11 to 0.[4]

Therefore, as presented in Tables 2-2 and 2-3, the percentage of benthic invertebrate communities in the RM 8.3 to RM 17.4 exposure areas with a WOE score classified as in the high-impact category is between 0 and 22%, and the percentage of benthic communities with a WOE score classified as having a limited impact (combination of no- and low-impact classifications) in the RM 8.3 to RM 17.4 exposure areas ranged between 24 and 76%. These percentages are similar to the results of the WOE results from the entire LPRSA, as presented in the BERA, according to which benthic invertebrate communities in 1 to 19% of the entire LPRSA have been highly impacted by sediment contamination, and that communities in 29 to 75% of the LPRSA have not been impacted or have had low impacts.

2.2 TISSUE ASSESSMENT

Consistent with the BERA, the benthic invertebrate tissue evaluation included tissue from the following species:

- Infaunal invertebrates – laboratory-exposed worm (*Nereis virens* [estuarine] and *Lumbriculus variegatus* [freshwater])
- Macroinvertebrates – blue crab (*Callinectes sapidus*)
- Mollusks – *in situ* caged mussels (ribbed [estuarine] and eastern elliptio [freshwater] mussels)

[4] Within the quantitative analysis of uncertainty, medium-impact locations were also reclassified (i.e., as likely low impact or likely impacted), but changes to medium-impact locations were not included in these percentages.

Table 2-4 presents the 23 COPECs identified for benthic invertebrates based on the tissue LOE. COPECs were evaluated by comparing LPRSA invertebrate tissue exposure point concentrations (EPCs) to benthic invertebrate tissue TRVs.

Table 2-4. Benthic invertebrate tissue COPECs

COPEC	
Metals	
Arsenic	Methylmercury/mercury
Cadmium	Nickel
Chromium	Selenium
Cobalt	Silver
Copper	Vanadium
Lead	Zinc
PAHs	
HPAHs	LPAHs
PCBs	
Total PCBs	PCB TEQ – fish
PCDD/PCDFs	
2,3,7,8-TCDD	Total TEQ – fish
PCDD/PCDF TEQ – fish	
Pesticides	
Dieldrin	Total DDx
Heptachlor epoxide	

COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
LPAH – low-molecular-weight polycyclic aromatic hydrocarbon
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF –polychlorinated dibenzofuran
TCDD – tetrachlorodibenzo-*p*-dioxin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

2.2.1 Exposure

EPCs were calculated for each of the COPEC-invertebrate tissue pairs. Tissue EPCs were calculated as the upper confidence limits (UCLs) of the mean using all available composite samples for worms (whole-body tissue from bioaccumulation testing), blue crab (calculated whole-body, muscle, and hepatopancreas tissue[5]), and mussels (soft tissue) from each exposure area (RM 8.3 to RM 17.4, RM 8.3 to RM 14.7, and RM 14.7

[5] Muscle and hepatopancreas EPCs were developed for blue crab and methylmercury/mercury for comparison to TRVs based on these specific tissue types.

to RM 17.4). Because tissue samples were collected within a 2-mile sampling reach, samples were assigned to exposure areas that encompassed any part of a 2-mile reach segment as follows:

- RM 8.3 to RM 17.4 – Includes worm or mussel tissue samples collected between RM 8.3 and RM 17.4, and blue crab tissues samples from Reach 5 (RM 8 to RM 10), Reach 6 (RM 10 to RM 12), Reach 7 (RM 12 to RM 14), and Reach 8 (RM 14 to RM 17.4)
- RM 8.3 to RM 14.7 – Includes worm or mussel tissue samples collected between RM 8.3 and RM 14.7, and blue crab tissues samples collected from Reach 5 (RM 8 to RM 10), Reach 6 (RM 10 to RM 12), and Reach 7 (RM 12 to RM 14)
- RM 14.7 to RM 17.4 – Includes worm or mussel tissue samples collected between RM 8.3 and RM 14.7, and blue crab tissues (muscle and hepatopancreas only[6]) samples collected from Reach 8 (RM 14 to RM 17.4)

UCLs were calculated using USEPA's ProUCL® statistical package (Version 5.0.00) (USEPA 2013); however, in many cases, insufficient data were available to calculate a UCL. Consistent with the BERA, maximum concentrations were used as EPCs when there were fewer than six detected samples. Table 2-5 summarizes sample counts of invertebrate tissue in each of the exposure areas evaluated. A summary of benthic invertebrate tissue EPCs is presented in Table 2-6.

Table 2-5. Summary of invertebrate species sample counts by exposure area

Invertebrate Species	Number of Composite Tissue Samples		
	RM 8.3 to RM 17.4[a]	RM 8.3 to RM 14.7[b]	RM 14.7 to RM 17.4[c]
Worms[d]	n = 11	n = 10	n = 1
Mussels	n = 5	n = 4	n = 1
Blue crab – whole body	n = 2	n = 2	no data[e]
Blue crab – muscle only	n = 10	n = 7	n = 3
Blue crab – hepatopancreas only	n = 2	n = 1	n = 1

Shaded rows indicate cases for which UCLs could be derived. In all other cases, maximum concentrations will be used to represent the EPC, because insufficient data were available to derive a UCL.

[a] Includes blue crab tissue samples collected from Reach 5 (RM 8 to RM 10), Reach 6 (RM 10 to RM 12), Reach 7 (RM 12 to RM 14), and Reach 8 (RM 14 to RM 17.4).

[b] Includes blue crab tissue samples collected from Reach 5 (RM 8 to RM 10), Reach 6 (RM 10 to RM 12), and Reach 7 (RM 12 to RM 14)

[c] Includes blue crab tissue samples collected from Reach 8 (RM 14 to RM 17.4).

[d] Only freshwater worms (*Lumbriculus variegatus)* were evaluated between RM 8.3 and RM 17.4. Estuarine worms (*Nereis virens*) were not evaluated above RM 8.3.

[e] No tissue data for blue crab were available for samples from between RM 14 and RM 17.4; therefore, whole-body tissue HQs for blue crab were not evaluated in this exposure area.

EPC – exposure point concentration
HQ – hazard quotient
RM – river mile
UCL – upper confidence limit (on the mean)

[6] No whole-body tissue data for blue crabs are available from RM 14.7 to RM 17.4.

Table 2-6. Benthic invertebrate tissue EPCs

COPEC	Unit	Infaunal Invertebrate (worms)			Mussels[a]			Blue Crab		
		RM 8.3–RM 17.4	RM 8.3–RM 14.7	RM 14.7–RM 17.4	RM 8.3–RM 17.4	RM 8.3–RM 14.7	RM 14.7–RM 17.4	RM 8.3–RM 17.4	RM 8.3–RM 14.7	RM 14.7–RM 17.4
Metals										
Arsenic	mg/kg	1.0	1.0	no data[b]	0.0	0.0	0.0	0.39	0.39	no data
Cadmium	mg/kg	0.14	0.14	no data[b]	0.009	0.009	0.007	0.12	0.12	no data
Chromium	mg/kg	38	38	no data[b]	10	0.57	10	1.0	1.0	no data
Cobalt	mg/kg	1.3	1.3	no data[b]	0.08	0.006	0.08	0.06	0.06	no data
Copper	mg/kg	6.8	6.8	no data[b]	0.36	0.36	0.08	29.3	29.3	no data
Lead	mg/kg	8.3	8.3	no data[b]	0.15	0.15	0.01	0.33	0.33	no data
Mercury	µg/kg	28	29	12	7.0	5	7.0	83[c]	83[c]	no data[d]
Methylmercury	µg/kg	1.4	1.4	1.0	7.0	7.0	3.0	68[e]	68[e]	no data[f]
Nickel	mg/kg	23	23	no data[b]	7.6	0.25	7.6	0.78	0.78	no data
Selenium	mg/kg	0.65	0.65	no data[b]	0.09	0.09	0.0	0.52	0.52	no data
Silver	mg/kg	0.028	0.028	no data[b]	0.002	0.002	0.001	0.31	0.31	no data
Vanadium	mg/kg	0.75	0.75	no data[b]	0.0	0.0	0.0	0.11	0.11	no data
Zinc	mg/kg	39.1	39.1	no data[b]	0.6	0.6	0.0	35.5	35.5	no data
PAHs										
Total HPAHs	µg/kg	1,800	1,800	no data[b]	220	220	210	23	23	no data
Total LPAHs	µg/kg	220	220	no data[b]	16	12	16	28	28	no data
PCBs										
Total PCBs	µg/kg	270	290	66	30	30	17	290	290	no data
PCB TEQ – fish[g]	ng/kg	0.24	0.23	0.082	0.026	0.026	0.015	0.64	0.64	no data
PCDD/PCDFs										
2,3,7,8-TCDD	ng/kg	40	39	0.5	3.6	3.6	0.077	53	53	no data

COPEC	Unit	Infaunal Invertebrate (worms)			Mussels[a]			Blue Crab		
		RM 8.3–RM 17.4	RM 8.3–RM 14.7	RM 14.7–RM 17.4	RM 8.3–RM 17.4	RM 8.3–RM 14.7	RM 14.7–RM 17.4	RM 8.3–RM 17.4	RM 8.3–RM 14.7	RM 14.7–RM 17.4
PCDD/PCDF TEQ – fish[g]	ng/kg	40	40	0.96	3.7	3.7	0.17	57	57	no data
Total TEQ – fish[g]	ng/kg	40	40	1.0	3.7	3.7	0.19	57	57	no data
Pesticides										
Dieldrin	µg/kg	1.8	1.9	1.2	3.0	3.0	2.5	7.4	7.4	no data
Heptachlor epoxide	µg/kg	0.45	0.47	0.15	1.2	1.2	0.89	7.4	7.4	no data
Total DDx	µg/kg	19	20	5.5	5.9	5.9	2.6	54	54	no data

Shaded rows indicate cases for which UCLs could be derived. In all other cases, maximum concentrations were used to represent the EPC, because insufficient data were available to derive a UCL.

[a] Mussel EPCs are based on day 0-normalized concentrations.

[b] Worms collected from Reach 8 were not analyzed for metals other than methylmercury/mercury due to limited tissue mass.

[c] Blue crab hepatopancreas and muscle tissue mercury EPCs were 37 and 160 µg/kg, respectively, for both RM 8.3–RM 14.7 and RM 8.3–RM 17.4.

[d] Blue crab hepatopancreas and muscle tissue mercury EPCs were 32 and 190 µg/kg, respectively, for RM 14.7–RM 17.4

[e] Blue crab hepatopancreas and muscle tissue methylmercury EPCs were 17 and 140 µg/kg, respectively, for both RM 8.3–RM 14.7 and RM 8.3–RM 17.4.

[f] Blue crab hepatopancreas and muscle tissue methylmercury EPCs were 15 and 170 µg/kg, respectively, for RM 14.7–RM 17.4.

[g] TEQ is calculated using the Kaplan-Meier approach.

COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
EPC – exposure point concentration
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
LPAH – low-molecular-weight polycyclic aromatic hydrocarbon
ne – not evaluated
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD– polychlorinated dibenzo-*p*-dioxin
PCDF –polychlorinated dibenzofuran
RM – river mile
TCDD – tetrachlorodibenzo-*p*-dioxin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
UCL – upper confidence limit (on the mean)

2.2.2 Effects

As described in the BERA, two sets of benthic tissue TRVs were used for the derivation of hazard quotients (HQs) and exceedance factors (EFs). The first set of TRVs was based on previous documents developed by USEPA Region 2 for the LPRSA:

- USEPA's Lower Passiac River (LPR) restoration project focused feasibility study (FFS) (Louis Berger et al. 2014)
- USEPA's first draft of the LPRSA FFS (Malcolm Pirnie 2007)

The second set of TRVs was derived based on a review of the general toxicological literature. Receptor group-specific TRVs (i.e., decapod-specific TRVs) and tissue-specific TRVs (i.e., blue crab hepatopancreas- and muscle tissue-specific TRVs) were developed, when toxicity data were available. Both no-observed-adverse-effect-level (NOAEL) and lowest-observed-adverse-effect level (LOAEL) TRVs were derived. Table 2-7a presents the benthic invertebrate tissue TRVs for the COPECs, and Table 2-7b presents the TRVs for regulated metals. Details and uncertainty associated with both sets of TRVs are provided in the main text of the BERA.

Table 2-7a. Benthic invertebrate tissue TRVs

COPEC	Units (ww)	Tissue Type	Range of TRVs[a]								
			TRV-A[b]				TRV-B[c]				Document
			NOAEL	LOAEL	Endpoint	Source	NOAEL	LOAEL	Endpoint	Source	
Metals											
Methylmercury /mercury	µg/kg	hepato-pancreas[d]	100[e]	1,000	survival (shore crab)	Bianchini and Gilles (1996)	48	95	reproduction (copepod)	Hook and Fisher (2002)	revised FFS (Louis Berger et al. 2014)
	µg/kg	muscle[f]	340	na	survival (lobster)	Canli and Furness (1995)					
	µg/kg	whole body[g]	48	95	reproduction (copepod)	Hook and Fisher (2002)					
Selenium	mg/kg	whole body	0.050[h]	0.51	growth (midge)	Malchow et al. (1995)	no value[i]	no value[i]	na	na	na
PAHs											
Fluorene (LPAH)	µg/kg	whole body	11,000[e]	111,000	mortality (amphipod)	Lee et al. (2002)	na	na	na	na	na
Fluoranthene (HPAH)	µg/kg	whole body	8,100	22,200	growth and reproduction (amphipod)	Schuler et al. (2007)	na	na	na	na	na
Total LPAHs	µg/kg	whole body	na	na	na	na	78	780	reproduction (estuarine polychaete)	Emery and Dillon (1996)	revised FFS (Louis Berger et al. 2014)
Total HPAHs	µg/kg	whole body	na	na	na	na	66	660	reproduction (blue mussel)	(Eertman et al. 1993; Eertman et al. 1995)	revised FFS (Louis Berger et al. 2014); updated by USEPA (2017a)
PCDD/PCDFs											
2,3,7,8-TCDD	ng/kg	whole body	300[e]	3,000	survival (crayfish)	Ashley et al. (1996)	0.15[j]	1.3[j]	reproduction (eastern oyster)	Wintermyer and Cooper (2003)	revised FFS (Louis Berger et al. 2014)

Table 2-7a. Benthic invertebrate tissue TRVs

COPEC	Units (ww)	Tissue Type	Range of TRVs[a]								
			TRV-A[b]				TRV-B[c]				
			NOAEL	LOAEL	Endpoint	Source	NOAEL	LOAEL	Endpoint	Source	Document
PCDD/PCDF TEQ – fish[k]	ng/kg	whole body	300[e]	3,000	survival (crayfish)	Ashley et al. (1996)	0.15[j]	1.3[j]	reproduction (eastern oyster)	Wintermyer and Cooper (2003)	revised FFS (Louis Berger et al. 2014)
PCBs											
Total PCBs	µg/kg	whole body	52[e]	520	survival, growth, and reproduction (10 species)	Hansen et al. (1974) (NOAEL); SSD-derived 5th percentile value (LOAEL)	6.4	17	reproduction (eastern oyster)	Chu et al. (2000); Chu et al. (2003)	revised FFS (Louis Berger et al. 2014), updated by USEPA (2017d)
PCB TEQ - fish[k]	ng/kg	whole body	300[e]	3,000	survival (crayfish)	Ashley et al. (1996)	0.15	1.3	reproduction (eastern oyster)	Wintermyer and Cooper (2003)	revised FFS (Louis Berger et al. 2014)
Organochlorine pesticides											
Dieldrin	µg/kg	whole body	8.0	80	survival (pink shrimp)	Parrish et al. (1973)	1.6	8.0	survival (pink shrimp)	Parrish et al. (1973)	revised FFS (Louis Berger et al. 2014)
Heptachlor epoxide	µg/kg	whole body	10	140	survival (American oyster)	Schimmel et al. (1976)	no value[i]	no value[i]	na	na	na
Total DDx	µg/kg	whole body	11[e] (1.0[l])	110 (10[l])	survival, growth, and reproduction (6 species)	Nimmo et al. (1970) (NOAEL); SSD-derived 5th percentile value (LOAEL)	60	130	survival (amphipod)	(Nimmo et al. 1970)	revised FFS (Louis Berger et al. 2014)

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one

conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] TRVs were derived from the primary literature review based on the process described in the main text of the BERA.

[c] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007), as described in the main text of the BERA.

[d] Mercury TRV based on Norway lobster and shore crab hepatopancreas tissue concentrations was selected for comparison to LPRSA blue crab hepatopancreas tissue.

[e] NOAEL extrapolated from LOAEL based on an uncertainty factor of 10.

[f] Mercury TRV based on Norway lobster muscle tissue concentrations was selected for comparison to LPRSA blue crab muscle tissue.

[g] Mercury TRV based on whole-body tissue concentrations was selected for comparison to LPRSA worm and bivalve tissue.

[h] NOAEL was based on DL.

[i] No TRVs were selected by USEPA in the revised FFS (Louis Berger et al. 2014) or draft FFS (Malcolm Pirnie 2007).

[j] TRV was derived from a field study.

[k] The evaluation of PCDDs/PCDFs and PCBs using a TEQ approach is highly uncertain when used to assess toxicity to invertebrates, given that TEFs are available for only fish, birds, and mammals. However, per USEPA comments on the draft BERA (USEPA 2015c), PCDDs/PCDFs were screened by comparing the TSV based on 2,3,7,8-TCDD to benthic invertebrate tissue concentrations of 2,3,7,8-TCDD and fish TEQs.

[l] An alternate SSD was also selected based on a conservative distribution fit; see the main text of the BERA for additional description.

BERA – baseline ecological risk assessment
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
DL – detection limit
FFS – focused feasibility study
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
LOAEL – lowest-observed-adverse-effect level
LPAH – low-molecular-weight polycyclic aromatic hydrocarbon
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
na – not applicable
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
SSD – species sensitivity distribution
TCDD – tetrachlorodibenzo-*p*-dioxin
TEF – toxic equivalency factor
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value
TSV – toxicity screening value
USEPA – US Environmental Protection Agency
ww – wet weight

Table 2-7b. Benthic invertebrate tissue TRVs for regulated metals

COPEC	Units (ww)	Tissue Type	Range of TRVs[a]								
			TRV-A[b]				TRV-B[c]				Document
			NOAEL	LOAEL	Endpoint	Source	NOAEL	LOAEL	Endpoint	Source	
Metals											
Arsenic	mg/kg	whole body	0.064[c]	0.64	survival and growth (7 species)	SSD-derived 5th percentile value	no value[e]	no value[e]	na	na	na
Cadmium	mg/kg	whole body	0.024[d]	0.24	survival, growth, and reproduction (29 species)	Sofyan et al. (2007) (NOAEL); SSD-derived 5th percentile value (LOAEL)	no value[e]	no value[e]	na	na	na
Chromium	mg/kg	whole body	1.5	3.5	survival and growth (amphipod)	Norwood et al. (2007)	no value[e]	no value[e]	na	na	na
Cobalt	mg/kg	whole body	1.2	2.6	survival and growth (amphipod)	Norwood et al. (2007)	no value[e]	no value[e]	na	na	na
Copper	mg/kg	whole body	na[f]	na[f]	na[f]	na[f]	5	12	survival (clam)	Absil et al. (1996)	revised FFS (Louis Berger et al. 2014)
Lead	mg/kg	whole body	4.0	40	survival (amphipod)	Spehar et al. (1978)	0.52	2.6	survival (amphipod)	Borgmann & Norwood (1999)	revised FFS (Louis Berger et al. 2014)
Nickel	mg/kg	whole body	0.10[g]	1.1[g]	survival (copepod)	Borgmann et al. (2001)	no value[e]	no value[e]	na	na	na
Silver	mg/kg	whole body	0.49	0.59	growth and reproduction (water flea)	Naddy et al. (2007)	no value[e]	no value[e]	na	na	na
Vanadium	mg/kg	whole body	na[f]	na[f]	na[f]	na[f]	no value[e]	no value[e]	na	na	na

Table 2-7b. Benthic invertebrate tissue TRVs for regulated metals

COPEC	Units (ww)	Tissue Type	Range of TRVs[a]								
			TRV-A[b]				TRV-B[c]				Document
			NOAEL	LOAEL	Endpoint	Source	NOAEL	LOAEL	Endpoint	Source	
Zinc	mg/kg	whole body[h]	8.0[d]	80	survival (bivalve)	King et al. (2004)	no value[e]	no value[e]	na	na	na
	mg/kg	whole body[i]	5.1[d]	51	survival (crustacean)	Muyssen et al. (2006)					
	mg/kg	whole body[j]	80	na[f]	survival (polychaete)	King et al. (2004)					

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] TRVs were derived from the primary literature review based on the process described in the main text of the BERA.

[c] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007), as described in the main text of the BERA.

[d] NOAEL was extrapolated from LOAEL based on an uncertainty factor of 10.

[e] No TRVs were selected by USEPA in the revised FFS (Louis Berger et al. 2014) or draft FFS (Malcolm Pirnie 2007).

[r] No TRVs were selected, see Section 6.3.3.2 of the main text of the BERA for further explaination.

[g] TRV was derived from a field study.

[h] Zinc whole-body TRV based on bivalve was selected for comparison to LPRSA bivalve whole-body tissue.

[i] Zinc whole-body TRV based on crustacean was selected for comparison to LPRSA blue crab whole-body tissue.

[j] Zinc whole-body TRV based on polychaete was selected for comparison to LPRSA worm whole-body tissue.

BERA – baseline ecological risk assessment
COPEC – chemical of potential ecological concern
FFS – focused feasibility study
LOAEL – lowest-observed-adverse-effect level
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
na – not applicable
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
SSD – species sensitivity distribution
TRV – toxicity reference value
USEPA – US Environmental Protection Agency
ww – wet weight

2.2.3 HQ Results

Tables 2-8a and 2-8b present the benthic tissue HQs for the COPECs in the three exposure areas: RM 8.3 to RM 17.4, RM 8.3 to RM 14.7, and RM 14.7 to RM 17.4.

Table 2-8a. Benthic invertebrate tissue LOAEL HQs

COPEC	Range of LOAEL HQs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Infaunal Invertebrate (worms)						
Metals						
Mercury	0.29	0.29	0.31	0.31	0.13	0.13
Methylmercury	0.015	0.015	0.015	0.015	0.011	0.011
Selenium	**1.3**	na	**1.3**	na	na	na
PAHs						
Total HPAHs	0.081	**2.7**	0.081	**2.7**	na	na
Total LPAHs	0.0020	0.28	0.0020	0.28	na	na
PCBs						
Total PCBs	0.52	**16**	0.56	**17**	0.13	**3.9**
PCB TEQ – fish	0.000080	0.18	0.000077	0.18	0.000027	0.06
PCDD/PCDFs						
2,3,7,8-TCDD	0.013	**31**	0.013	**30**	0.00017	0.38
Dioxin TEQ – fish	0.013	**31**	0.013	**31**	0.00032	0.74
Total TEQ – fish	0.013	**31**	0.013	**31**	0.00033	0.77
Organochlorine Pesticides						
Dieldrin	0.023	0.23	0.024	0.24	0.015	0.15
Heptachlor epoxide	0.0032	na	0.0034	na	0.0011	na
Total DDx	0.17 (**1.9**[e])	0.15	0.18 (**2.0**[e])	0.15	0.050 (0.55[e])	0.042
Mussels						
Metals						
Mercury	0.074	0.074	0.053	0.053	0.074	0.074
Methylmercury	0.074	0.074	0.074	0.074	0.032	0.032
Selenium	0.18	na	0.18	na	0.0	na
PAHs						
Total HPAHs	0.0099	0.33	0.0099	0.333	0.0095	0.318
Total LPAHs	0.00014	0.021	0.00011	0.02	0.00014	0.02
PCBs						
Total PCBs	0.058	**1.8**	0.058	**1.8**	0.033	**1.0**
PCB TEQ – fish	0.0000087	0.020	0.000009	0.020	0.000005	0.012

Table 2-8a. Benthic invertebrate tissue LOAEL HQs

COPEC	Range of LOAEL HQs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
PCDD/PCDFs						
2,3,7,8-TCDD	0.0012	**2.8**	0.0012	**2.8**	0.000026	0.059
Dioxin TEQ – fish	0.0012	**2.8**	0.0012	**2.8**	0.000057	0.13
Total TEQ – fish	0.0012	**2.8**	0.0012	**2.8**	0.000063	0.15
Organochlorine pesticides						
Dieldrin	0.038	0.38	0.038	0.38	0.031	0.31
Heptachlor epoxide	0.0086	na	0.0086	na	0.0064	na
Total DDx	0.054 (0.59[e])	0.045	0.054 (0.59[e])	0.045	0.024 (0.26[e])	0.020
Blue Crab						
Metals						
Mercury (whole body)	0.9	0.87	0.87	0.87	na	na
Methylmercury (whole body)	0.7	0.72	0.72	0.72	na	na
Mercury (hepatopancreas)	0.037	na	0.037	na	0.032	na
Methylmercury (hepatopancreas)	0.017	na	0.017	na	0.015	na
Mercury (muscle)	na	na	na	na	na	na
Methylmercury (muscle)	na	na	na	na	na	na
Selenium	**1.0**	na	**1.0**	na	na	na
PAHs						
Total HPAHs	0.0010	0.035	0.0010	0.035	na	na
Total LPAHs	0.00025	0.036	0.00025	0.036	na	na
PCBs						
Total PCBs	0.56	**17**	0.56	**17**	na	na
PCB TEQ – fish	0.00021	0.49	0.00021	0.49	na	na
PCDD/PCDFs						
2,3,7,8-TCDD	0.018	**41**	0.018	**41**	na	na
Dioxin TEQ – fish	0.019	**44**	0.019	**44**	na	na
Total TEQ – fish	0.019	**44**	0.019	**44**	na	na
Organochlorine pesticides						
Dieldrin	0.093	0.93	0.093	0.93	na	na
Heptachlor epoxide	0.053	na	0.053	na	na	na
Total DDx	0.49 (**5.4**[e])	0.42	0.49 (**5.4**[e])	0.42	na	na

Bold identifies HQs ≥ 1.0.

Shaded cells identify HQs ≥ 1.0 based on a LOAEL TRV.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] HQs were based on EPCs in Table 2-6 and TRVs in Table 2-7a.

[c] TRVs were derived from the primary literature review based on the process described in the main text of the BERA.

[d] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007).

[e] HQs in parenthesis were based on additional alternative SSD-derived LOAELs evaluated; see the main text of the BERA for details.

BERA – baseline ecological risk assessment
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
EPC – exposure point concentration
FFS – focused feasibility study
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
LPAH – low-molecular-weight polycyclic aromatic hydrocarbon
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
na – not applicable
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PCB – polychlorinated biphenyl
RM – river mile
SSD – species sensitivity distribution
TCDD – tetrachlorodibenzo-*p*-dioxin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value
USEPA – US Environmental Protection Agency

Table 2-8b. Benthic invertebrate tissue NOAEL HQs

COPEC	Range of NOAEL HQs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Infaunal Invertebrate (worms)						
Metals						
Mercury	0.58	0.58	0.60	0.60	0.25	0.25
Methylmercury	0.029	0.029	0.029	0.029	0.021	0.021
Selenium	**13**	na	**13**	na	na	na
PAHs						
Total HPAHs	0.22	**27**	0.22	**27**	na	na
Total LPAHs	0.020	**2.8**	0.020	**2.8**	na	na
PCBs						
Total PCBs	**5.2**	**42**	**5.6**	**45**	**1.3**	**10**
PCB TEQ – fish	0.00080	**1.6**	0.00077	**1.5**	0.00027	0.5

Table 2-8b. Benthic invertebrate tissue NOAEL HQs

COPEC	Range of NOAEL HQs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
PCDD/PCDFs						
2,3,7,8-TCDD	0.13	**267**	0.13	**260**	0.0017	**3.3**
Dioxin TEQ – fish	0.13	**267**	0.13	**267**	0.0032	**6.4**
Total TEQ – fish	0.13	**267**	0.13	**267**	0.0033	**6.7**
Organochlorine pesticides						
Dieldrin	0.23	**1.1**	0.24	**1.2**	0.15	0.8
Heptachlor epoxide	0.045	Na	0.047	na	0.015	na
Total DDx	**1.7 (19[e])**	0.32	**1.8 (20[e])**	0.33	0.50 (**5.5[e]**)	0.092
Mussels						
Metals						
Mercury	0.15	0.15	0.10	0.10	0.15	0.15
Methylmercury	0.15	0.15	0.15	0.15	0.063	0.063
Selenium	**1.8**	Na	**1.8**	na	0.0	na
PAHs						
Total HPAHs	0.027	3.3	0.027	**3.33**	0.026	**3.18**
Total LPAHs	0.0015	0.21	0.0011	0.2	0.0015	0.2
PCBs						
Total PCBs	0.58	**4.7**	0.58	**4.7**	0.33	**2.7**
PCB TEQ – fish	0.000087	0.17	0.000087	0.17	0.000050	0.10
PCDD/PCDFs						
2,3,7,8-TCDD	0.0120	**24**	0.012	**24**	0.00026	0.51
Dioxin TEQ – fish	0.0123	**25**	0.012	**25**	0.00057	**1.1**
Total TEQ – fish	0.0123	**25**	0.012	**25**	0.00063	**1.3**
Organochlorine pesticides						
Dieldrin	0.38	**1.9**	0.38	**1.9**	0.31	**1.6**
Heptachlor epoxide	0.12	na	0.12	na	0.089	na
Total DDx	0.54 (**5.9[e]**)	0.098	0.54 (**5.9[e]**)	0.098	0.24 (**2.6[e]**)	0.043
Blue Crab						
Metals						
Mercury (whole body)	**1.7**	**1.7**	**1.7**	**1.7**	na	na
Methylmercury (whole body)	**1.4**	**1.4**	**1.4**	**1.4**	na	na
Mercury (hepatopancreas)	0.37	na	0.37	na	0.32	na
Methylmercury (hepatopancreas)	0.17	na	0.17	na	0.15	na

Table 2-8b. Benthic invertebrate tissue NOAEL HQs

COPEC	Range of NOAEL HQs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Mercury (muscle)	0.47	na	0.47	na	0.56	na
Methylmercury (muscle)	0.41	na	0.41	na	0.50	na
Selenium	**10**	na	**10**	na	na	na
HPAHs						
Total HPAHs	0.0028	0.35	0.0028	0.35	na	na
Total LPAHs	0.0025	0.36	0.0025	0.36	na	na
PCBs						
Total PCBs	**5.6**	**45**	**5.6**	**45**	na	na
PCB TEQ – fish	0.0021	**4.3**	0.0021	**4.3**	na	na
PCDD/PCDFs						
2,3,7,8-TCDD	0.18	**353**	0.18	**353**	na	na
Dioxin TEQ – fish	0.19	**380**	0.19	**380**	na	na
Total TEQ – fish	0.19	**380**	0.19	**380**	na	na
Organochlorine pesticides						
Dieldrin	0.93	**4.6**	0.93	**4.6**	na	na
Heptachlor epoxide	0.74	na	0.74	na	na	na
Total DDx	**4.9 (54[e])**	0.90	**4.9 (54[e])**	0.90	na	na

Bold identifies HQs ≥ 1.0.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] HQs were based on EPCs in Table 2-6 and TRVs in Table 2-7a.

[c] TRVs were derived from the primary literature review based on the process described in the main text of the BERA.

[d] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007).

[e] HQs in parenthesis were based on additional alternative SSD-derived LOAELs evaluated; see the main text of the BERA for details.

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DDE – dichlorodiphenyldichloroethylene
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EPC – exposure point concentration
na – not applicable
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PCB – polychlorinated biphenyl
RM – river mile
SSD – species sensitivity distribution

FFS – focused feasibility study
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
LPAH – low-molecular-weight polycyclic aromatic hydrocarbon
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
TCDD – tetrachlorodibenzo-p-dioxin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value
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2.2.4 Key uncertainties

The uncertainties associated with the benthic invertebrate tissue risk characterization are discussed in the BERA. There is high uncertainty associated with the risk estimates for inorganic metals due to the varying ways invertebrates uptake, bioaccumulate, and regulate metals within tissues. The risk estimates for regulated metals were evaluated in the uncertainty section BERA, and the uncertainties related to regulated metals were further discussed in the same document. Tables 2-9a and 2-9b provide tissue LOAEL and NOAEL EFs for the three exposure areas.

Table 2-9a. Benthic invertebrate tissue LOAEL EFs

COPEC	Range of LOAEL EFs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Infaunal Invertebrate (worms)						
Metals						
Arsenic	**1.6**	na	**1.6**	na	na	na
Cadmium	0.58	na	0.58	na	na	na
Chromium	**11**	na	**11**	na	na	na
Cobalt	0.50	na	0.50	na	na	na
Copper	na	0.57	na	0.57	na	na
Lead	0.21	**3.2**	0.21	**3.2**	na	na
Nickel	**21**	na	**21**	na	na	na
Silver	0.047	na	0.047	na	na	na
Vanadium	na	na	na	na	na	na
Zinc	na	na	na	na	na	na
Mussels						
Metals						
Arsenic	0.0	na	0.0	na	0.0	na
Cadmium	0.038	na	0.038	na	0.029	na
Chromium	**2.9**	na	0.16	na	**2.9**	na
Cobalt	0.031	na	0.0023	na	0.031	na

Table 2-9a. Benthic invertebrate tissue LOAEL EFs

COPEC	Range of LOAEL EFs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Copper	na	0.030	na	0.030	na	0.007
Lead	0.0038	0.058	0.0038	0.058	0.00025	0.0038
Nickel	**6.9**	na	0.23	na	**6.9**	na
Silver	0.0034	na	0.0034	na	0.0017	na
Vanadium	na	na	na	na	na	na
Zinc	0.0075	na	0.0075	na	0.0	na
Blue Crab						
Metals						
Arsenic	0.61	na	0.61	na	na	na
Cadmium	0.50	na	0.50	na	na	na
Chromium	0.29	na	0.29	na	na	na
Cobalt	0.023	na	0.023	na	na	na
Copper	na	**2.4**	na	**2.4**	na	na
Lead	0.0083	0.13	0.0083	0.13	na	na
Nickel	0.71	na	0.71	na	na	na
Silver	0.53	na	0.53	na	na	na
Vanadium	na	na	na	na	na	na
Zinc	0.70	na	0.70	na	na	na

Bold identifies EFs ≥ 1.0.

Shaded cells identify EFs ≥ 1.0 based on a LOAEL TRV.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] EFs were based on EPCs in Table 2-6 and TRVs in Table 2-7b.

[c] TRVs were derived from the primary literature review based on the process described in the main text of the BERA.

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RM – river mile

LOAEL – lowest-observed-adverse-effect level
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
SSD – species sensitivity distribution
TRV – toxicity reference value
USEPA – US Environmental Protection Agency

Table 2-9b. Benthic invertebrate tissue NOAEL EFs

COPEC	Range of NOAEL HQs and EFs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Infaunal Invertebrate (worms)						
Metals						
Arsenic	**16**	na	**16**	na	na	na
Cadmium	**5.8**	na	**5.8**	na	na	na
Chromium	**25**	na	**25**	na	na	na
Cobalt	**1.1**	na	**1.1**	na	na	na
Copper	na	**1.4**	na	**1.4**	na	na
Lead	**2.1**	**16**	**2.1**	**16**	na	na
Nickel	**230**	na	**230**	na	na	na
Silver	0.057	na	0.057	na	na	na
Vanadium	na	na	na	na	na	na
Zinc	0.49	na	0.49	na	na	na
Mussels						
Metals						
Arsenic	0.0	na	0.0	na	0.0	na
Cadmium	0.38	na	0.38	na	0.29	na
Chromium	**6.7**	na	0.38	na	**6.7**	na
Cobalt	0.067	na	0.0050	na	0.067	na
Copper	na	0.072	na	0.072	na	0.016
Lead	0.038	0.29	0.038	0.29	0.0025	0.019
Nickel	**76**	na	**2.5**	na	76	na
Silver	0.0041	na	0.0041	na	0.0020	na
Vanadium	na	na	na	na	na	na
Zinc	0.075	na	0.075	na	0.0	na
Blue Crab						
Metals						
Arsenic	**6.1**	na	**6.1**	na	na	na
Cadmium	**5.0**	na	**5.0**	na	na	na
Chromium	0.67	na	0.67	na	na	na
Cobalt	0.050	na	0.050	na	na	na
Copper	na	**5.9**	na	5.9	na	na

Table 2-9b. Benthic invertebrate tissue NOAEL EFs

COPEC	Range of NOAEL HQs and EFs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Lead	0.083	0.63	0.083	0.63	na	na
Nickel	**7.8**	na	**7.8**	na	na	na
Silver	0.63	na	0.63	na	na	na
Vanadium	na	na	na	na	na	na
Zinc	**7.0**	na	**7.0**	na	na	na

Bold identifies EFs ≥ 1.0.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] EFs were based on EPCs in Table 2-6 and TRVs in Table 2-7b.

[c] TRVs were derived from the primary literature review based on the process described in the main text of the BERA.

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NOAEL – no-observed-adverse-effect level
RM – river mile
SSD – species sensitivity distribution
TRV – toxicity reference value
USEPA – US Environmental Protection Agency

2.2.5 Summary

Of the COPECs evaluated in the whole-body tissue of three species of benthic invertebrate, six COPECs had LOAEL HQs ≥ 1.0 for blue crab, four had LOAEL HQs ≥ 1.0 for mussels, and seven had LOAEL HQs ≥ 1.0 for worms, all using a range of TRVs (Table 2-10). No LOAEL or NOAEL HQs were ≥ 1.0 for blue crab hepatopancreas and muscle tissue.

Risk estimates (presented as EFs) for regulated metals are presented in Table 2-11. There is high uncertainty associated with the risk estimates for inorganic regulated metals due to the varying ways invertebrates uptake, bioaccumulate, and regulate metals within tissues.

Benthic invertebrate tissue COPECs with LOAEL HQs > 1.0 were the same as those in the 17.4-mile LPRSA BERA, with the exception of methylmercury/mercury and silver. These COPECs had LOAEL HQs < 1.0 in this upper 9-mile evaluation but LOAEL HQs > 1.0 in the BERA. HQs in the BERA were similar to those in this upper 9-mile evaluation, although polychlorinated dibenzo-*p*-dioxin/polychlorinated dibenzofuran (PCDD/PCDF) toxic equivalent (TEQ) and total TEQ HQs were < 1.0 in the upper segment exposure area (RM 14.7 to RM 17.4).

Table 2-10. Summary of invertebrate tissue LOAEL HQs

COPEC[b]	Range of LOAEL HQs[a]						Key Uncertainties
	HQ Based on TRV-A[c]			HQ based on TRV-B[d]			
	Blue Crab[e]	Mussels[e]	Worms[e]	Blue Crab[e]	Mussels[e]	Worms[e]	
Selenium	**1.0**	0.0–0.18	**1.3**	na	na	na	• TRV-A based on 15% reduction in growth and on a limited dataset (1 study); TRV-A within the range of aquatic invertebrate selenium background concentrations reported by DOI (1998)
Total HPAHs	0.0010	0.0095–0.0099	0.081	0.035	0.32–0.33	**2.7**	• Both TRVs based on individual PAH (fluoranthene) • TRV-B based on impaired gametogenesis
Total PCBs	0.56	0.033–0.058	0.13–0.56	**17**	**1.0–1.8**	**3.9–17**	• TRV-A based on SSD less than lowest measured LOAEL evaluated • TRV-B based on whole-body tissue concentrations interpolated from measured egg tissue concentrations
2,3,7,8-TCDD	0.018	0.000026–0.0012	0.00017–0.013	**41**	0.059–**2.8**	0.38–**30**	• TRV-A based on injected (not measured) concentration in crayfish • TRV-B based on uncontrolled field data and limited sample size (n = 1 tissue composite); LOAEL based on relative reduction at Arthur Kill site compared to Sandy Hook site • Evaluation as TEQ (based on fish TEFs) questionable for invertebrates because of limited evidence for ligand activation of the Ah (dioxin) cellular receptor in these organisms; as a result, organisms not susceptible to the dioxin-like effects reported for vertebrates (Van den Berg et al. 1998).
PCDD/PCDF TEQ - fish	0.019	0.000057–0.0012	0.00032–0.013	**44**	0.13–**2.8**	0.74–**31**	
Total TEQ - fish	0.019	0.000063–0.0012	0.00033–0.013	**44**	0.15–**2.8**	0.77–**31**	
Total DDx	0.49 (**5.4**[f])	0.024–0.054 (0.26–0.59[f])	0.050–0.18 (0.55–**2.0**[f])	0.42	0.020–0.045	0.042–0.15	• TRV-A and alternative TRV-A based on SSDs less than lowest measured LOAEL • Alternative TRV-A based on relatively poor visual and statistical fit to the empirical data and likely overestimates toxicity

Bold identifies HQs ≥ 1.0.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] Only COPECs with HQs ≥ 1.0 based on a LOAEL TRV are included in the table.

[c] TRVs were derived from the primary literature review.

[d] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007).

[e] Whole-body tissue data.

[f] HQs in parenthesis were based on additional alternative SSD-derived LOAEL evaluated (see main text of the BERA).

Ah – aryl hydrocarbon
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
FFS – focused feasibility study
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
LPR – Lower Passaic River
LPRSA – Lowr Passaic River Study Area
na – not applicable
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
SSD – species sensitivity distribution
TCDD – tetrachlorodibenzo-*p*-dioxin
TEF – toxic equivalency factor
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value
USEPA – US Environmental Protection Agency

Table 2-11. Summary of invertebrate tissue LOAEL EFs for regulated metals

COPEC[b]	Range of LOAEL EFs[a]						Key Uncertainties
	EF Based on TRV-A[c]			EF Based on TRV-B[d]			
	Blue Crab[e]	Mussels[e]	Worms[e]	Blue Crab[e]	Mussels[e]	Worms[e]	
Arsenic	0.61	0.0	**1.6**	nc	nc	nc	• Tissue-residue approach not recommended for regulated metals[f] • TRV-A derived using SSD
Chromium	0.29	0.16–**2.9**	**11**	nc	nc	nc	• Tissue-residue approach not recommended for regulated metals[f] • TRV-A based on limited dataset (2 studies)
Copper	nc	nc	nc	**2.4**	0.007–0.030	0.57	• Tissue-residue approach not recommended for regulated metals[f]
Lead	0.0083	0.00025-0.0038	0.21	0.13	0.0038–0.058	**3.2**	• Tissue-residue approach not recommended for regulated metals[f] • TRV-A based on limited dataset (3 studies) • TRV-B based on field-collected sediment
Nickel	0.71	0.23–**6.9**	**21**	nc	nc	nc	• Tissue-residue approach not recommended for regulated metals[f] • TRV-A based on limited dataset (1 study) and on field-collected sediment

Bold identifies EFs ≥ 1.0.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] Only regulated metals with EFs ≥ 1.0 based on a LOAEL TRV are included in the table.

[c] TRVs were derived from the primary literature review.

[d] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007).

[e] Whole-body tissue data.

[f] USEPA framework for metals risk assessment (USEPA 2007e) recommends against the use of a tissue residue approach, stating that the CBR approach for metals "does not appear to be a robust indicator of toxic dose."

BERA – baseline ecological risk assessment
CBR – critical body residue
COPEC – chemical of potential ecological concern
EF – exceedance factor
LPRSA – Lower Passaic River Study Area
nc – not calculated
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level

FFS – focused feasibility study
LOAEL – lowest-observed-adverse-effect level
LPR – Lower Passaic River
SSD – species sensitivity distribution
TRV – toxicity reference value
USEPA – US Environmental Protection Agency

2.3 SURFACE WATER ASSESSMENT

COPECs identified in surface water for benthic invertebrates are presented in Table 2-12. As for the surface water evaluation for benthic invertebrates in the BERA, data were evaluated by comparing near-bottom surface water concentrations to water TRVs.

Table 2-12. Surface water COPECs evaluated for benthic invertebrates

COPEC	
Metals[a]	
Cadmium	Mercury
Chromium	Selenium
Copper	Silver
Lead	Zinc
Butyltin	
TBT[b]	
PAHs	
Anthracene	Fluoranthene
Benzo(a)anthracene	Pyrene
Benzo(a)pyrene	
SVOCs	
BEHP	BBP
PCBs	
Total PCBs	
PCDDs/PCDFs	
2,3,7,8-TCDD	
Pesticides	
4,4′-DDE	Hexachlorobenzene
4,4′-DDT	Total chlordane
Dieldrin[b]	Total DDx
Other	
Cyanide	

[a] All metals were identified as COPECs based on the total concentrations.

[b] Identified as a COPEC for the estuarine area only.

BBP – butyl benzyl phthalate
BEHP – bis(2-ethylhexyl) phthalate
COPEC – chemical of potential concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
PAH – polycyclic aromatic hydrocarbon
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
SVOC – semivolatile organic compound
TBT – tributyltin
TCDD – tetrachlorodibenzo-*p*-dioxin
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

PCB – polychlorinated biphenyl

2.3.1 Exposure

Surface water EPCs were calculated for only one exposure area—between RM 8.3 and RM 14.7—for comparison to both estuarine and freshwater thresholds. No surface water data were available for the exposure area between RM 14.7 and RM 17.4. Benthic invertebrates are found throughout the LPRSA and are exposed to LPRSA surface water at the subsurface, or near-bottom, portion of the water column. Therefore, only near-bottom surface water (3 ft [0.9 m] above the bottom) data collected throughout the LPRSA during various flow events were used in EPC calculations for the benthic invertebrate surface water assessment, consistent with the LPRSA BERA.

Surface water EPCs for benthic invertebrates were based on a conservative upper-bound estimate of the mean concentration (i.e., UCL). UCLs were calculated using USEPA's ProUCL® statistical package (Version 5.0.00) (USEPA 2013), as described in and consistent with the BERA.

Table 2-13 summarizes counts of surface water samples in each of the exposure areas evaluated. EPCs in near-bottom surface water samples are presented in Table 2-14.

Table 2-13. Summary of surface water sample counts by exposure area

Invertebrate Species	Number of Surface Water Samples		
	Estuarine	Freshwater	
	RM 8.3 to RM 14.7[a]	RM 8.3 to RM 14.7[a]	RM 14.7 to RM 17.4
Near-bottom samples	n = 33	n = 33	no data
All water samples	n = 66	n = 66	no data

[a] Surface water EPCs between RM 8.3 and RM 14.7 were compared to both estuarine and freshwater TRVs.

EPC – exposure point concentration TRV – toxicity reference value
RM – river mile

Table 2-14. Near-bottom surface water sample EPCs

COPEC	Units	EPC	
		RM 8.3 to RM 14.7	RM 14.7 to RM 17.4
Metals[a]			
Cadmium	µg/L	0.031 (0.01–0.85)[b]	no data
Chromium	µg/L	5.8	no data
Copper	µg/L	9.31 (1.9–7.78)[c]	no data
Lead	µg/L	1.3 (0.098–7.35)[c]	no data
Mercury	ng/L	9.6	no data
Selenium	µg/L	0.79	no data
Silver	µg/L	0.032	no data

Table 2-14. Near-bottom surface water sample EPCs

COPEC	Units	EPC	
		RM 8.3 to RM 14.7	RM 14.7 to RM 17.4
Zinc	µg/L	9.1 (2.1–11.9)[c]	no data
Butyltins			
TBT	µg/L	0.05[d]	no data
PAHs			
Anthracene	ng/L	16.7	no data
Benzo(a)anthracene	ng/L	64.6	no data
Benzo(a)pyrene	ng/L	104	no data
Fluoranthene	ng/L	164	no data
Pyrene	ng/L	168	no data
SVOCs			
BEHP	µg/L	3.3[d]	no data
BBP	µg/L	0.32	no data
PCBs			
PCB TEQ – fish	ng/L	0.0000376	no data
Total PCBs	ng/L	28.9	no data
PCDD/PCDFs			
2,3,7,8-TCDD	ng/L	0.0204	no data
Organochlorine pesticides			
4,4'-DDE	ng/L	3	no data
4,4'-DDT	ng/L	1.1	no data
Dieldrin	ng/L	1.7	no data
Hexachlorobenzene	ng/L	0.994[d]	no data
Total Chlordane	ng/L	4.97	no data
Total DDx	ng/L	5.4	no data
Other			
Cyanide	mg/L	0.014[d]	no data

[a] Metals based on dissolved concentrations.

[b] Range represents sample-specific EPCs. Sample-specific EPCs were evaluated with sample-specific, hardness-based TRVs.

[c] Range represents sample-specific EPCs. Sample-specific EPCs were evaluated with sample-specific, BLM-based TRVs.

[d] EPC based on maximum concentration.

BBP – butyl benzyl phthalate
BEHP – bis(2-ethylhexyl) phthalate
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile
SVOC – semivolatile organic compound

DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
EPC – exposure point concentration
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
TBT – tributyltin
TCDD – tetrachlorodibenzo-*p*-dioxin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

2.3.2 Effects

As described in the BERA, surface water TRVs were determined using aquatic life-based criteria from existing USEPA ambient water quality criteria (AWQC), or from the published literature based on the USEPA AWQC derivation approach. If aquatic life-based criteria were not available, then TRVs to predict risk to benthic invertebrates and fish were derived using up-to-date toxicological data relevant to aquatic species. Table 2-15 presents the surface water TRVs for the COPECs. Details on and uncertainties associated with surface water TRVs are provided in the main text of the BERA.

Table 2-15. Surface water TRVs used in the evaluation of benthic invertebrates

COPEC	TRV Type	TRV (µg/L)[a]		TRV Derivation Method
		Acute	Chronic	
Metals[b]				
Cadmium	estuarine	33	7.9	saltwater CMC and CCC (USEPA 2015a, 2016a)
	freshwater	1.6–6.5	0.66–2.0	freshwater CMC and CCC (USEPA 2016a); TRV ranges reflect range of mean sample-specific hardness values
Chromium	estuarine	1,100	50	saltwater CMC and CCC, as dissolved chromium(VI) (USEPA 2017c)
	freshwater	16	11	freshwater CMC and CCC from USEPA (1996), converted to dissolved chromium using USEPA-recommended CF (USEPA 2017c)
Copper	estuarine	17–76[c,d]	11–47[c,d]	freshwater criteria used because salinity in all samples > RM 8.3 was < 3.5 ppth
	freshwater	17–76[c,d]	11–47[c,d]	near-bottom sample-specific CMC and CCC (using ACR) based on freshwater BLM from USEPA (2007f)
Lead	estuarine	100	9.7	proposed acute and chronic saltwater criteria (Church et al. 2017) based on acute and chronic SSDs
	freshwater	196–760[c,d]	7.5–35[c,d]	sample-specific CMC and CCC (using ACR) based on freshwater BLM (DeForest et al. 2017)
Mercury	estuarine	1.8	0.94	saltwater CMC and CCC from USEPA (1984), converted to dissolved mercury using USEPA's metals-specific CF (USEPA 2017c)
	freshwater	1.4	0.21	acute TRV is freshwater CMC from USEPA (1996), converted to dissolved mercury using USEPA's metals-specific CF (USEPA 2017c); chronic TRV is lowest LOEC from USEPA (2016c)
Selenium	estuarine	290	71	saltwater AWQC (USEPA 2017c; U.S. Environmental Protection Agency 1999)
	freshwater	na	3.1	chronic TRV is dissolved selenium CCC in lotic waters (USEPA 2016b); no acute TRV selected for selenium
Silver	estuarine	5.54	2.0	5th percentile of saltwater SSD based on acute toxicity data divided by 2; chronic value derived using an ACR of 5.536
	freshwater	1.8	0.69	acute and chronic values based on a proposed freshwater BLM from an unpublished report (HydroQual et al. 2007)
Zinc	estuarine	75	19	acute TRV is 5th percentile of acute saltwater SSD divided by 2; chronic TRV is 5th percentile of chronic saltwater SSD

Table 2-15. Surface water TRVs used in the evaluation of benthic invertebrates

COPEC	TRV Type	TRV (µg/L)[a]		TRV Derivation Method
		Acute	Chronic	
	freshwater	210–960[c,d]	52–160[c,d]	sample-specific CCC and CMC based on freshwater BLM from DeForest and Van Genderen (2012)
Butyltins				
TBT	estuarine	0.42	0.066	USEPA-calculated saltwater FAV divided by 2 and FCV from USEPA (2003a)
PCBs				
Total PCBs	estuarine	4.6	0.16	acute TRV is 5th percentile of saltwater SSD based on acute toxicity data, divided by 2; chronic TRV is lowest chronic LOEC (sheepshead minnow reproduction)[f]
	freshwater	1.2	0.27	acute TRV is 5th percentile of acute SSD based on toxicity data from USEPA (1980d) and USEPA (2016c); chronic TRV derived using an ACR of 8.4
PCDDs/PCDFs				
2,3,7,8-TCDD and TEQs – fish	estuarine	0.025	1.65×10^{-5}	chronic TRV is LOEC derived from Wintermyer and Cooper (2003) for reduced fertilization rates and increased egg mortality rates in eastern oyster (acute TRV selected for the benthic invertebrate assessment based on TRV derived from tests with a sensitive fish species [zebrafish])
	freshwater	0.0041	9.8×10^{-4}	acute TRV is lowest acute LC50 for a freshwater fish species (Japanese medaka); chronic TRV derived using an ACR of 8.3 from Raimondo et al. (2007)
Organochlorine Pesticides				
4,4′-DDE	estuarine	1.25	0.30	acute TRV is lowest acute toxicity value for saltwater invertebrate species (*Nitocra spinipes*) divided by 2; chronic TRV is lowest chronic toxicity value for same species
	freshwater	2.40	1.40	acute TRV is 5th percentile of freshwater SSD based on acute toxicity data, divided by 2; chronic TRV derived using an ACR of 3.6 for DDT-type chemicals
4,4′-DDT/total DDx	estuarine	0.034	0.019	acute TRV is 5th percentile of acute SSD based on saltwater data from USEPA (1980c) and USEPA (2016c), divided by 2; chronic TRV derived using an ACR for DDT-type chemicals
	freshwater	0.45	0.25	acute TRV is 5th percentile of acute SSD based on freshwater data from USEPA (1980c) and USEPA (2016c), divided by 2; chronic TRV derived using an ACR for DDT-type chemicals
Total chlordane	estuarine	0.045	0.0064	USEPA-calculated saltwater CMC and CCC from USEPA (1980b)
	freshwater	1.2	0.17	USEPA-calculated freshwater CMC and CCC from USEPA (1980b)

Table 2-15. Surface water TRVs used in the evaluation of benthic invertebrates

COPEC	TRV Type	TRV (µg/L)[a]		TRV Derivation Method
		Acute	Chronic	
Dieldrin	estuarine	0.36	0.084	USEPA-calculated saltwater CMC and CCC from USEPA (1980a)
Hexachlorobenzene	saltwater	71	23	lowest acute LC50 for a saltwater species (common sole) divided by 2; chronic value derived using an ACR
	freshwater	180	57	5th percentile of freshwater SSD based on acute toxicity data; chronic value derived using an ACR
PAHs				
Anthracene	estuarine	34.5	13.5	acute TRV is lowest acute LC50 for a saltwater species (dwarf surf clam) divided by 2; chronic TRV derived using an ACR of 5.09 from DiToro et al. (2000)
	freshwater	0.26	0.10	acute TRV is 5th percentile of freshwater SSD based on acute toxicity data divided by 2; chronic value derived using an ACR of 5.09
Benzo(a)anthracene	estuarine	0.48	0.19	same as freshwater TRVs[e]
	freshwater	0.48	0.19	acute TRV is lowest acute LC50 for a freshwater species (*Daphnia magna*); chronic TRV derived using an ACR of 5.09
Benzo(a)pyrene	estuarine	0.51	0.20	acute TRV is lowest acute LC50 for *Daphnia magna*, divided by 2; chronic TRV derived using an ACR of 5.09
	freshwater	2.03	0.80	acute TRV is 5th percentile of freshwater SSD based on acute toxicity data divided by 2; chronic TRV derived using an ACR of 5.09
Fluoranthene	estuarine	3.02	1.19	acute TRV is 5th percentile of saltwater SSD based on acute toxicity data, divided by 2; chronic TRV derived using an ACR of 5.09
	freshwater	13.2	5.20	acute TRV is 5th percentile of freshwater SSD based on acute toxicity data; chronic TRV derived using an ACR of 5.09
Pyrene	estuarine	0.46	0.18	acute TRV is lowest acute EC50 for a saltwater species (dwarf surf clam) divided by 2; chronic TRV derived using an ACR of 5.09
	freshwater	2.2	0.84	acute TRV is lowest acute EC50 for a freshwater species (*Daphnia magna*); chronic TRV derived using an ACR of 5.09

Table 2-15. Surface water TRVs used in the evaluation of benthic invertebrates

COPEC	TRV Type	TRV (µg/L)[a]		TRV Derivation Method
		Acute	Chronic	
SVOCs				
BEHP	estuarine	500	100	acute TRV is lowest LC50 divided by 2; chronic TRV derived using an ACR of 6.9 based on DeFoe et al. (1990)
	freshwater	24.1	7.0	acute TRV is 5th percentile of freshwater SSD based on acute toxicity data; chronic TRV derived using an ACR of 6.9
BBP	estuarine	245	71	acute TRV is lowest acute LC50 for a saltwater species (shiner perch); chronic TRV derived using an ACR of 6.9.
	freshwater	107	30.9	acute TRV is 5th percentile of freshwater SSD based on acute toxicity data; chronic TRV derived using an ACR of 6.9.
Other				
Cyanide	estuarine	6.1	1.9	acute TRV is 5th percentile of SSD based on acute toxicity data of 13 invertebrate and 3 fish species; chronic TRV derived using an ACR of 8.6 from Gensemer et al. (2006)
	freshwater	32.3	7.5	acute TRV is 5th percentile of SSD based on acute toxicity data of 24 invertebrate and 11 fish species; chronic TRV derived using an ACR of 6.5 from Gensemer et al. (2006)

[a] NOAEL TRVs were not developed for surface water; SSD-derived 5th percentile TRVs were based on effects levels from the literature.

[b] TRVs for metals were based on the dissolved chemical form.

[c] For COPECs with BLM-based TRVs, the distinction between freshwater and saltwater was based on 3.5 ppth salinity.

[d] As they are sample specific, the BLM-based TRVs are a range of values (i.e., each individual sample has a corresponding BLM-based TRV); therefore, the BLM-based TRVs vary slightly from those presented in the BERA because only a subset of BERA surface water data was used for this upper 9-mile evaluation (i.e., data above RM 8.3).

[e] The freshwater TRVs for benzo(a)anthracene were selected as surrogate estuarine TRVs due to lack of saltwater toxicity data.

ACR – acute-to-chronic ratio
AWQC – ambient water quality criteria
BBP – butyl benzyl phthalate
BEHP – bis(2-ethylhexyl) phthalate
BERA – baseline ecological risk assessment
BLM – biotic ligand model
CCC – criterion continuous concentration
CF – conversion factor
EC50 – concentration that causes a non-lethal effect in 50% of an exposed population
FAV – final acute value
FCV – final chronic value
LC50 – concentration that is lethal to 50% of an exposed population
LOEC – lowest-observed-effect concentration
na – not applicable
ppth – parts per thousand
RM – river mile
SSD – species sensitivity distribution
SVOC – semivolatile organic compound
TBT – tributyltin
TCDD – tetrachlorodibenzo-*p*-dioxin
TEQ – toxic equivalent

CMC – criterion maximum concentration
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
ne – not evaluated
NOAEL – no-observed-adverse-effect level
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value
USEPA – US Environmental Protection Agency

2.3.3 HQ Results

Table 2-16 presents the surface water HQs for the COPECs in the exposure area between RM 8.3 and RM 14.7; no surface water data were collected between RM 14.7 and RM 17.4.

Table 2-16. Near-bottom surface water HQs

COPEC	HQ for RM 8.3 to RM 14.7[a]			
	Estuarine		Freshwater	
	Acute	Chronic	Acute	Chronic
Metals				
Cadmium	0.00094	0.0039	0.0043–0.030[b]	0.012–0.085[b]
Chromium	0.0053	0.12	0.36	0.53
Copper	0.034–0.42[b]	0.055–0.67[b]	0.034–0.42[b]	0.055–0.67[b]
Lead	0.013	0.13	<0.001–0.022[b]	0.012–0.43[b]
Mercury	0.0053	0.010	0.0069	0.046
Selenium	0.0027	0.011	na	0.25
Silver	0.0058	0.016	0.018	0.046
Zinc	0.12	0.48	0.0047–0.043[b]	0.021–0.19[b]
Butyltins				
TBT	0.12	0.76	not a COPEC in freshwater portion	
PAHs				
Anthracene	0.00048	0.0012	0.064	0.17
Benzo(a)anthracene	0.13	0.34	0.13	0.34
Benzo(a)pyrene	0.20	0.52	0.051	0.13
Fluoranthene	0.054	0.14	0.012	0.032
Pyrene	0.37	0.93	0.076	0.20
SVOCs				
BEHP	0.0066	0.033	0.14	0.47
BBP	0.0013	0.0045	0.0030	0.010
PCBs				
Total PCBs	0.0063	0.18	0.024	0.11
PCDD/PCDFs				
2,3,7,8-TCDD	0.00082	**1.2**	0.0050	0.021
Organochlorine pesticides				
4,4'-DDE	0.0024	0.010	0.0013	0.0021
4,4'-DDT	0.032	0.058	0.0024	0.0044
Dieldrin	0.0047	0.020	not a COPEC	not a COPEC

COPEC	HQ for RM 8.3 to RM 14.7[a]			
	Estuarine		Freshwater	
	Acute	Chronic	Acute	Chronic
Hexachlorobenzene	0.000014	0.000043	0.0000055	0.000017
Total chlordane	0.11	0.78	0.0041	0.029
Total DDx	0.16	0.28	0.012	0.022
Other				
Cyanide	**2.3**	**7.4**	0.43	**1.9**

Bold identifies HQs ≥ 1.0.

Shaded cells identify HQs ≥1 based on acute or chronic TRVs.

[a] HQs are based on EPCs presented in Table 2-14 and TRVs presented in Table 2-15. No surface water data were collected between RM 14.7 and RM 17.4.

[b] HQs based on sample-specific, hardness- or BLM-based TRVs are presented as a range of values (i.e., each individual sample has a corresponding hardness- or BLM-based TRV and HQ).

BBP – butyl benzyl phthalate
BEHP – bis(2-ethylhexyl) phthalate
BLM – biotic ligand model
COPEC – chemical of potential concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
EPC – exposure point concentration
HQ – hazard quotient
na – not applicable
ne – not evaluated
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile
SVOC – semivolatile organic compound
TBT – tributyltin
TCDD – tetrachlorodibenzo-*p*-dioxin
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value

2.3.4 Key uncertainties

The primary uncertainty associated with the surface water risk characterization are discussed in the BERA.

2.3.5 Summary

HQs were < 1.0 for all but two of the surface water COPECs evaluated; 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD) and cyanide, both which had HQs ≥ 1.0.

Surface water COPECs with HQs > 1.0 in this upper 9-mile evaluation were the same as those in the 17.4-mile LPRSA BERA, with the exception of copper HQs, which were < 1.0 in this evaluation and ≥ 1.0 in the BERA. HQs for cyanide based on the upper 9-mile evaluation were slightly higher than those for the entire LPRSA presented in the BERA, and HQs for 2,3,7,8-TCDD based on the upper 9-mile evaluation were slightly lower than those for the entire LPRSA.

2.4 SUMMARY OF RESULTS

Based on the results of SQT WOE analysis (and the quantitative analysis of uncertainty), it appears that benthic invertebrate communities in as much as to 22% of

the LPRSA have been highly impacted by sediment contamination, and that communities in 24 to 76% of the LPRSA have not been impacted or have had low impacts.

The potential for risk to benthic invertebrates was also evaluated using the surface water and tissue LOEs. Benthic invertebrate (blue crab, *in situ* mussel, and worm from bioaccumulation testing) tissue and surface water concentrations were compared to a range of TRVs to derive risk estimates (HQs) in the risk characterization. COPECs and species pairs with effect-level HQs ≥ 1.0 (based on an acute or chronic TRV for surface water, or a LOAEL TRV for tissue and diet) in at least one LOE were proposed as preliminary chemicals of concern (COCs) for the upper 9 miles of the LPRSA (Tables 2-17 and 2-18).

Table 2-17. Summary of preliminary COCs for benthic invertebrates for the upper 9 miles of the LPRSA

Preliminary COC[b]	Range of LOAEL HQs[a]							
	Invertebrate Tissue LOE						Surface Water LOE	
	HQ Based on TRV–A[c]			HQ Based on TRV–B[d]			HQ Based on Estuarine TRVs[e]	HQ Based on Freshwater TRVs[e]
	Blue Crab	Mussels	Worms	Blue Crab	Mussels	Worms		
Selenium	**1.0**	0.0–0.18	**1.3**	na	na	na	0.0027 (acute), 0.011 (chronic)	0.25 (chronic)
Cyanide	ne[f]			ne[f]			**2.3** (acute), **7.4** (chronic)	0.43 (acute), **1.9** (chronic)
Total HPAHs	0.0010	0.0095–0.0099	0.081	0.035	0.32–0.33	**2.7**	not a COPEC	
Total PCBs	0.56	0.033–0.058	0.13–0.56	**17**	**1.0–1.8**	**3.9–17**	0.0063 (acute), 0.18 (chronic)	0.024 (acute), 0.11 (chronic)
2,3,7,8-TCDD	0.018	0.000026–0.0012	0.00017–0.013	**41**	0.059–**2.8**	0.38–**30**	0.00082 (acute), **1.2** (chronic)	0.0050 (acute), 0.021 (chronic)
PCDD/PCDF TEQ – fish	0.019	0.000057–0.0012	0.00032–0.013	**44**	0.13–**2.8**	0.74–**31**	not a COPEC	
Total TEQ – fish	0.019	0.000063–0.0012	0.00033–0.013	**44**	0.15–**2.8**	0.77–**31**	not a COPEC	
Total DDx	0.49 (**5.4**[g])	0.024–0.054 (0.26–0.59[g])	0.050 –0.18 (0.55–**2.0**[g])	0.42	0.020–0.045	0.042–0.15	0.16 (acute), 0.28 (chronic)	0.012 (acute), 0.022 (chronic)

Bold identifies HQs ≥ 1.0.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a

single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] Only COPECs with HQs ≥ 1.0 based on a LOAEL TRV are included in this table.

[c] HQs for tissue were based on TRVs derived from the primary literature review.

[d] HQs for tissue were based on TRVs based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007).

[e] HQs for surface water were derived using EPCs based on UCLs.

[f] Cyanide was not evaluated using the tissue LOE; this chemical was not analyzed in LPRSA tissue.

[g] HQs in parenthesis were based on an additional alternative SSD-derived LOAEL evaluated.

BERA – baseline ecological risk assessment
COC – chemical of concern
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
EPC – exposure point concentration
FFS – focused feasibility study
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
LOE – line of evidence
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
ne – not evaluated
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
SSD – species sensitivity distribution
TCDD – tetrachlorodibenzo-*p*-dioxin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value
UCL – upper confidence limit on the mean
USEPA – US Environmental Protection Agency

Table 2-18. Summary of regulated metals preliminary COCs for benthic invertebrates for the upper 9 miles of the LPRSA

Preliminary COC[b]	Range of LOAEL EFs/HQs[a]							
	EF Based on TRV–A[c]			EF based on TRV–B[d]			Surface Water LOE	
	Blue Crab	Mussels	Worms	Blue Crab	Mussels	Worms	HQ Based on Estuarine TRVs[e]	HQ Based on Freshwater TRVs[e]
Arsenic	0.61	0.0	**1.6**	nc	nc	nc	not a COPEC	
Chromium	0.29	0.16–**2.9**	**11**	nc	nc	nc	0.0053 (acute), 0.12 (chronic)	0.36 (acute), 0.53 (chronic)
Copper	nc	nc	nc	**2.4**	0.007–0.030	0.57	0.034–0.42 (acute), 0.055–0.67 (chronic)	0.034–0.42 (acute), 0.055–0.67 (chronic)
Lead	0.0083	0.00025–0.0038	0.21	0.13	0.0038–0.058	**3.2**	0.013 (acute), 0.13 (chronic)	<0.001–0.022 (acute), 0.012–0.43 (chronic)
Nickel	0.71	0.23–**6.9**	**21**	nc	nc	nc	not a COPEC	

Bold identifies EFs ≥ 1.0.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] Only COPECs with HQs ≥ 1.0 based on a LOAEL TRV are included in this table.

[c] HQs for tissue were based on TRVs derived from the primary literature review.

[d] HQs for tissue were based on TRVs based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007).

[e] HQs for surface water were derived using EPCs based on UCLs, except for copper and lead, for which HQs were calculated based on individual water samples (because the BLM-based TRVs were sample-specific).

BERA – baseline ecological risk assessment
BLM – biotic ligand model
COC – chemical of concern
COPEC – chemical of potential ecological concern
EPC – exposure point concentration
EF – exceedance factor
FFS – focused feasibility study
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
LOE – line of evidence
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
nc – not calculated
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
TRV – toxicity reference value
UCL – upper confidence limit on the mean
USEPA – US Environmental Protection Agency

3 Fish Assessment

The potential for risks to fish was characterized quantitatively using four LOEs, consistent with the LPRSA BERA:

- **Tissue LOE –** comparison of fish tissue concentrations to tissue TRVs
- **Dietary LOE –** comparison of fish dietary doses to dietary dose TRVs
- **Surface water LOE –** comparison of surface water concentrations to water TRVs
- **Fish egg tissue LOE –** comparison of modeled mummichog concentrations to egg tissue TRVs

These LOEs are presented in the following subsections.

3.1 TISSUE ASSESSMENT

Consistent with the BERA, the fish tissue assessment included the evaluation of the following species:

- Benthic omnivores: mummichog (*Fundulus heteroclitus)*, other small forage fish (SFF) (e.g., banded killifish [*Fundulus diaphanus*]/darter), and common carp (*Cyprinus carpio)*
- Invertivores – white perch (*Morone americana)*, channel catfish (*Ictalurus punctatus*), brown bullhead (*Ameiurus nebulosus*), white catfish (*Ameiurus catus*), and white sucker (*Catastomus commersoni*)
- Piscivores – American eel (*Anguilla rostrata*), largemouth bass (*Micropterus salmoides*), smallmouth bass (*Micropterus dolomieu*), and northern pike (*Esox lucius*)

Table 3-1 presents the COPECs identified for fish based on the tissue LOE. COPECs were evaluated by comparing LPRSA fish tissue EPCs to fish tissue TRVs.

Table 3-1. Fish tissue COPECs

COPEC	
Metals	
Arsenic	Methylmercury/mercury
Cadmium	Selenium
Chromium	Silver
Copper	Zinc
Lead	
PAHs	
Total HPAHs[b]	Total LPAHs[b]

COPEC	
PCBs	
Total PCBs	PCB TEQ - fish
PCDDs/PCDFs	
2,3,7,8-TCDD	Total TEQ - fish
PCDD/PCDF TEQ - fish	
Organochlorine Pesticides	
Dieldrin	Total DDx
Endosulfan I	

Note: COPECs are those COIs for which the maximum concentration exceeded its TSV. If a TSV was exceeded based on any fish species evaluated in the SLERA, it was retained as a COPEC for all fish.

[a] As described in the main text of the BERA, a screening-level evaluation of PAHs in fish tissue was included in the SLERA, but PAH COPECs in fish tissue were not further evaluated in the BERA. Because PAHs are rapidly metabolized and excreted by fish following uptake, whole-body PAH tissue concentrations do not provide a good measure of the dose at the site of toxic action; thus, tissue-based exposure and effects data are not predictive of risks.

BERA – baseline ecological risk assessment
COI – chemical of interest
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
LPAH – low-molecular-weight polycyclic aromatic hydrocarbon
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD– polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
SLERA – screening-level ecological risk assessment
TCDD – tetrachlorodibenzo-*p*-dioxin
TEQ – toxicity equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT, and 4,4′-DDT)
TSV – toxicity screening value
USEPA – US Environmental Protection Agency

3.1.1 Exposure

EPCs were calculated for each of the COPEC-fish tissue pairs. Tissue EPCs were calculated as the UCLs using all available composite samples for each fish species from each exposure area (RM 8.3 to RM 17.4, RM 8.3 to RM 14.7, and RM 14.7 to RM 17.4). Because tissue samples were collected using a 2-mile sampling reach, samples were assigned to exposure areas that encompassed any part of a 2-mile reach segment as follows:

- RM 8.3 to RM 17.4 – Includes tissue samples collected from Reach 5 (RM 8 to RM 10), Reach 6 (RM 10 to RM 12), Reach 7 (RM 12 to RM 14), and Reach 8 (RM 14 to RM 17.4)
- RM 8.3 to RM 14.7 – Includes tissue samples collected from Reach 5 (RM 8 to RM 10), Reach 6 (RM 10 to RM 12), and Reach 7 (RM 12 to RM 14)
- RM 14.7 to RM 17.4 – Includes tissue samples collected from Reach 8 (RM 14 to RM 17.4)

UCLs were calculated using USEPA's ProUCL® statistical package (Version 5.0.00) (USEPA 2013); however, in many cases, insufficient data were available to calculate a UCL. Consistent with the BERA, maximum concentrations were used as EPCs when there were fewer than six detected samples. Table 3-2 summarizes sample counts of invertebrate tissue samples in each of the exposure areas evaluated. A summary of fish tissue EPCs is presented in Tables 3-3a through Table 3-3c.

Table 3-2. Summary of fish species sample counts by exposure area

Fish Species	Number of Composite Tissue Samples		
	RM 8.3 to RM 17.4[a]	RM 8.3 to RM 14.7[b]	RM 14.7 to RM 17.4[c]
Mummichog	n = 3	n = 3	no data[d]
Other forage fish	n = 8	n = 5	n = 3
Common carp	n = 8	n = 6	n = 2
White perch	n = 10	n = 7	n = 3
Channel catfish	n = 11	n = 5	n = 6
Brown bullhead	n = 4	n = 4	no data[d]
White catfish	n = 13	n = 9	n = 4
White sucker	n = 4	n = 2	n = 2
American eel	n = 11	n = 6	n = 5
Largemouth bass	n = 3	n = 2	n = 1
Northern pike	n = 1	n = 1	no data[d]
Smallmouth bass	n = 2	n = 1	n = 1

Shaded rows indicate where UCLs could be derived. In all other cases, maximum concentrations were used to represent the EPCs, because insufficient data were available to derive a UCL.

[a] Includes fish tissue samples collected from Reach 5 (RM 8 to RM 10), Reach 6 (RM 10 to RM 12), Reach 7 (RM 12 to RM 14), and Reach 8 (RM 14 to RM 17.4).

[b] Includes fish tissue samples collected from Reach 5 (RM 8 to RM 10), Reach 6 (RM 10 to RM 12), and Reach 7 (RM 12 to RM 14)

[c] Includes fish tissue samples collected from Reach 8 (RM 14 to RM 17.4).

[d] No tissue data for mummichog, brown bullhead, and northern pike were available between RM 14 and RM 17.4; therefore, fish tissue HQs for these species were not evaluated in this exposure area.

EPC – exposure point concentration

HQ – hazard quotient

RM – river mile

UCL – upper confidence limit (on the mean)

Table 3-3a. Fish tissue EPCs for RM 8.3 to RM 17.4

COPEC	Unit	Benthic Omnivores			Invertivores					Piscivores			
		Mummichog	Other Forage Fish	Common Carp	White Perch	Channel Catfish	Brown Bullhead	White Catfish	White Sucker	American Eel	Largemouth Bass	Northern Pike	Smallmouth Bass
Metals													
Arsenic	mg/kg	0.27	0.27	0.15	0.2	0.054	0.097	0.052	0.11	0.14	0.068	0.12	0.25
Cadmium	mg/kg	0.052	0.049	0.036	0.02	0.014	0.031	0.016	0.013	0.13	0.037	0.0035	0.0089
Copper	mg/kg	3.8	4.1	1.2	10	1.3	0.94	0.7	1.1	4.3	0.58	0.57	0.8
Lead	mg/kg	3.1	2.7	0.89	0.59	0.3	0.83	0.57	0.25	1	0.12	0.033	0.098
Mercury	µg/kg	50	97	91	190	150	140	250	140	210	680	220	300
Methylmercury	µg/kg	31	90	70	200	140	120	310	130	220	520	180	220
Selenium	mg/kg	0.81	0.66	0.89	1.7	0.31	0.9	0.37	0.46	0.87	0.59	0.55	0.69
Silver	mg/kg	0.043	0.037	0.012	0.13	0.014	0.006	0.0066	0.0045	0.023	0.0026	0.0028	0.0028
Zinc	mg/kg	42.3	38.1	79.1	27.8	20	16.9	17	18.7	29.5	16	34	18.4
PCBs													
Total PCBs	µg/kg	710	480	5,200	3,500	1,700	600	3,300	2,900	1,200	7,900	2,000	1,400
PCB TEQ - fish[a]	ng/kg	0.72	0.57	4.5	2	1.8	0.77	3.4	3.2	0.88	17	2.3	1.4
PCDD/PCDF													
2,3,7,8-TCDD	ng/kg	100	32	470	140	96	81	200	130	19	180	95	76
PCDD/PCDF TEQ – fish[a]	ng/kg	100	34	490	140	100	85	200	130	30	180	100	76
Total TEQ – fish[a]	ng/kg	100	34	490	150	100	86	210	130	29	180	110	82
Organochlorine pesticides													
Dieldrin	µg/kg	28	15	53	33	47	24	30	25	63	40	43	19
Endosulfan I	µg/kg	0.8	1.5	4	0.22	2	1.1	1.5	0.45	0.2	10	2.1	1.4
Total DDx	µg/kg	81	55	600	190	280	60	400	150	210	160	280	130

Shaded rows indicate where UCLs could be derived. In all other cases, maximum concentrations were used to represent the EPC because insufficient data were available to derive a UCL.

Note: EPCs based on fish tissue samples collected from Reaches 5 through 8.

[a] TEQ calculated using the Kaplan-Meier approach.

COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
EPC – exposure point concentration
PCB – polychlorinated biphenyl
PCDD– polychlorinated dibenzo-*p*-dioxin
PCDF –polychlorinated dibenzofuran
RM – river mile
TCDD – tetrachlorodibenzo-*p*-dioxin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT, and 4,4′-DDT)
UCL – upper confidence limit (on the mean)

Table 3-3b. Fish tissue EPCs for RM 8.3 to RM 14.7

COPEC	Unit	Benthic Omnivores			Invertivores					Piscivores			
		Mummichog	Other Forage Fish	Common Carp	White Perch	Channel Catfish	Brown Bullhead	White Catfish	White Sucker	American Eel	Largemouth Bass	Northern Pike	Smallmouth Bass
Metals													
Arsenic	mg/kg	0.27	0.38	0.2	0.22	0.076	0.097	0.058	0.069	0.1	0.064	0.12	0.22
Cadmium	mg/kg	0.052	0.054	0.028	0.022	0.017	0.031	0.019	0.0036	0.17	0.037	0.0035	0.0089
Copper	mg/kg	3.8	4.1	0.9	12	0.63	0.94	0.72	1.1	7.1	0.58	0.57	0.8
Lead	mg/kg	3.1	3.2	0.92	0.63	0.28	0.83	0.6	0.22	0.96	0.12	0.033	0.098
Mercury	µg/kg	50	150	75	220	230	140	290	140	270	170	220	300
Methylmercury	µg/kg	31	150	62	240	230	120	240	130	270	140	180	220
Selenium	mg/kg	0.81	0.89	0.92	2.1	0.34	0.9	0.4	0.43	0.95	0.59	0.55	0.69
Silver	mg/kg	0.043	0.047	0.008	0.17	0.0019	0.006	0.0066	0.0038	0.031	0.0026	0.0028	0.0028
Zinc	mg/kg	42.3	32.7	85.5	28.1	22	16.9	17	17	30.5	16	34	17.7
PCBs													
Total PCBs	µg/kg	710	610	6,000	3,400	2,400	600	3,800	2,900	1,400	2,100	2,000	1,400
PCB TEQ – fish[a]	ng/kg	0.72	0.64	5.1	2.4	2.5	0.77	4.4	3.2	0.96	2.1	2.3	1.4
PCDD/PCDF													
2,3,7,8-TCDD	ng/kg	100	57	580	180	140	81	230	130	31	180	95	76
PCDD/PCDF TEQ – fish[a]	ng/kg	100	60	600	190	150	85	240	130	32	180	100	76
Total TEQ – fish[a]	ng/kg	100	60	600	190	150	86	240	130	33	180	110	82
Organochlorine pesticides													
Dieldrin	µg/kg	28	17	57	39	53	24	28	25	46	40	43	19
Endosulfan I	µg/kg	0.8	1.5	4	0.22	2	1.1	1.5	0.6	0.2	2.7	2.1	0.68
Total DDx	µg/kg	81	71	680	240	290	60	480	150	260	160	280	130

Shaded rows indicate where UCLs could be derived. In all other cases, maximum concentrations were used to represent the EPC because insufficient data were available to derive a UCL.

Note: EPCs based on fish tissue samples collected from Reaches 5 through 7.

[a] TEQ calculated using the Kaplan-Meier approach.

COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
EPC – exposure point concentration
PCB – polychlorinated biphenyl
PCDD– polychlorinated dibenzo-*p*-dioxin
PCDF –polychlorinated dibenzofuran
RM – river mile
TCDD – tetrachlorodibenzo-*p*-dioxin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT, and 4,4′-DDT)
UCL – upper confidence limit (on the mean)

Table 3-3c. Fish tissue EPCs for RM 14.7 to RM 17.4

COPEC	Unit	Benthic Omnivores			Invertivores					Piscivores			
		Mummichog	Other Forage Fish	Common Carp	White Perch	Channel Catfish	Brown Bullhead	White Catfish	White Sucker	American Eel	Largemouth Bass	Northern Pike	Smallmouth Bass
Metals													
Arsenic	mg/kg	no data	0.21	0.17	0.18	0.054	na	0.053	0.11	0.26	0.068	no data	0.25
Cadmium	mg/kg	no data	0.037	0.054	0.018	0.016	na	0.016	0.013	0.19	0.0034	no data	0.0074
Copper	mg/kg	no data	3.7	1.6	7.6	2.1	na	0.83	0.96	1.5	0.4	no data	0.4
Lead	mg/kg	no data	3.1	0.96	0.47	0.36	na	0.66	0.25	1.3	0.02	no data	0.093
Mercury	µg/kg	no data	48	110	110	160	na	240	100	190	680	no data	220
Methylmercury	µg/kg	no data	29	90	120	150	na	340	97	190	520	no data	160
Selenium	mg/kg	no data	0.76	0.87	0.83	0.31	na	0.46	0.46	1.1	0.36	no data	0.51
Silver	mg/kg	no data	0.028	0.012	0.055	0.014	na	0.0026	0.0045	0.009	0.0026	no data	0.0026
Zinc	mg/kg	no data	48	72.4	28.4	19	na	19	18.7	31.3	15.4	no data	18.4
PCBs													
Total PCBs	µg/kg	no data	480	1,700	1,000	2,000	na	3,200	850	1,200	7,900	no data	980
PCB TEQ – fish[a]	ng/kg	no data	0.64	1.9	1.2	2.2	na	3.5	1.3	1.2	17	no data	1
PCDD/PCDF													
2,3,7,8-TCDD	ng/kg	no data	16	46	62	110	na	160	11	1.4	0.43	no data	8
PCDD/PCDF TEQ – fish[a]	ng/kg	no data	18	51	65	110	na	170	13	3.4	2	no data	8.6
Total TEQ – fish[a]	ng/kg	no data	19	53	67	110	na	170	14	4.6	19	no data	9.8
Organochlorine pesticides													
Dieldrin	µg/kg	no data	17	48	25	56	na	48	17	110	16	no data	16
Endosulfan I	µg/kg	no data	1.1	0.88	0.76	3.6	na	1.5	0.45	2	10	no data	1.4
Total DDx	µg/kg	no data	56	130	120	350	na	470	73	240	72	no data	100

Shaded rows indicate where UCLs could be derived. In all other cases, maximum concentrations were used to represent the EPC because insufficient data were available to derive a UCL.

Note: EPCs based on fish tissue samples collected from Reach 8.

[a] TEQ calculated using the Kaplan-Meier approach.

COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
EPC – exposure point concentration
na – not applicable
PCB – polychlorinated biphenyl
PCDD– polychlorinated dibenzo-*p*-dioxin
PCDF –polychlorinated dibenzofuran
RM – river mile
TCDD – tetrachlorodibenzo-*p*-dioxin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT, and 4,4′-DDT)
UCL – upper confidence limit (on the mean)

3.1.2 Effects

As described in the BERA, two sets of fish tissue TRVs were used for the derivation of HQs and EFs. The first set of TRVs was based on previous documents developed by USEPA Region 2 for the LPRSA:

- USEPA's LPR restoration project FFS (Louis Berger et al. 2014)
- USEPA's first draft of the LPRSA FFS (Malcolm Pirnie 2007)

The second set of TRVs was derived based on a review of the general toxicological literature. Both NOAEL and LOAEL TRVs were derived. Table 3-4a presents the fish tissue TRVs for the COPECs; Table 3-4b presents the TRVs for regulated metals. Details and uncertainty associated with both sets of TRVs selected are provided in the main text of the BERA.

Table 3-4a. Fish tissue TRVs

COPEC	Units (ww)	Range of TRVs[a]								
		TRV-A[b]				TRV-B[c]				
		NOAEL	LOAEL	Endpoint	Source	NOAEL	LOAEL	Endpoint	Source	Document
Metals										
Methylmercury	µg/kg	35[d]	350	survival, growth, reproduction, and behavior (12 species)	Webber and Haines (2003); SSD-derived 5th percentile (LOAEL)	52	260	growth, survival, reproduction, and behavior (7 species)	Beckvar et al. (2005)	revised FFS (Louis Berger et al. 2014)
Selenium	mg/kg	na[e]	1.6	reproduction (bluegill, sunfish, and fathead minnow)	Coyle et al. (1993); Hermanutz et al. (1992); Ogle and Knight (1989)	no value[f]	no value[f]	na	na	na
PCBs										
Total PCBs	µg/kg	380[d]	3,800	survival, growth, and reproduction (11 species)	Hansen et al. (1971) (NOAEL); SSD-derived 5th percentile value (LOAEL)	170	530	smolt seawater preference behavior (Atlantic salmon)	Lerner et al. (2007)	revised FFS (Louis Berger et al. 2014)
PCB TEQ - fish	ng/kg	12[d] (2.3[g])	120 (23[g])	survival, growth, and reproduction (7 species)	Fisk et al. (1997) (NOAEL); SSD-derived 5th percentile value (LOAEL)	0.89	1.8	prey capture behavior (mummichog)	Couillard et al. (2011)	revised FFS (Louis Berger et al. 2014)
Organochlorine pesticides										
Total DDx	µg/kg	52[d]	520	survival, growth, reproduction, and behavior (7 species)	SSD-derived 5th percentile value	78	390	growth, survival, reproduction, and behavior (9 species)	Beckvar et al. (2005)	revised FFS (Louis Berger et al. 2014)

Table 3-4a. Fish tissue TRVs

COPEC	Units (ww)	Range of TRVs[a]								
		TRV-A[b]				TRV-B[c]				
		NOAEL	LOAEL	Endpoint	Source	NOAEL	LOAEL	Endpoint	Source	Document
Dieldrin	µg/kg	120	200	survival (rainbow trout)	Shubat and Curtis (1986)	8.0	40	survival (rainbow trout)	Shubat and Curtis (1986)	revised FFS (Louis Berger et al. 2014)
Endosulfan II	µg/kg	3.1[d]	31	survival (spot)	Schimmel et al. (1977)	no value[f]	no value[f]	na	na	na
PCDDs/PCDFs										
PCDD/PCDF TEQ - fish	ng/kg	12[d] (2.3[d,g])	120 (23[g])	survival, growth, and reproduction (7 species)	Fisk et al. (1997) (NOAEL); SSD-derived 5th percentile value (LOAEL)	0.89	1.8	prey capture behavior (mummichog)	Couillard et al. (2011)	revised FFS (Louis Berger et al. 2014)
Total TEQ - fish	ng/kg									

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] TRVs were derived from the primary literature review based on process described in the main text of the BERA.

[c] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007), as described in main text of the BERA.

[d] NOAEL was extrapolated from LOAEL using an uncertainty factor of 10.

[e] No NOAEL was selected because LOAEL was based on ED10 value for the most sensitive species evaluated, below which adverse effects are not expected.

[f] No TRVs were available in the revised FFS (Louis Berger et al. 2014) or draft FFS (Malcolm Pirnie 2007).

[g] An alternate SSD distribution was also selected based on a conservative distribution fit; see the main text of the BERA for details.

BERA – baseline ecological risk assessment
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
ED10 – dose that corresponds to a 10% increase in an adverse effect of an exposed population
LOAEL – lowest-observed-adverse-effect level
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
na – not applicable
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PCDF – polychlorinated dibenzofuran
SSD – species sensitivity distribution
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value

FFS – focused feasibility study

PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin

USEPA – US Environmental Protection Agency
ww – wet weight

Table 3-4b. Fish tissue TRVs for regulated metals

COPEC	Units (ww)	Range of TRVs[a]								
		TRV-A[b]				TRV-B[c]				
		NOAEL	LOAEL	Endpoint	Source	NOAEL	LOAEL	Endpoint	Source	Document[a]
Metals										
Arsenic	mg/kg	1.3	2.5	growth (rainbow trout)	Erickson et al. (2011)	no value[d]	no value[d]	na	na	na
Cadmium	mg/kg	0.016[e]	0.16	survival, growth, reproduction (13 species)	Benoit et al. (1976). (NOAEL); LOAEL TRV: SSD-derived 5th percentile value (LOAEL)	no value[d]	no value[d]	na	na	na
Chromium	mg/kg	na[f]	na[f]	na	na	no value[d]	no value[d]	na	na	na
Copper	mg/kg	na[f]	na[f]	na	na	0.32	1.5	survival (striped mullet)	Zyadah and Abdel-Baky (2000)	revised FFS (Louis Berger et al. 2014)
Lead	mg/kg	2.5	4.0	growth (brook trout)	Holcombe et al. (1976)	0.4	4.0	reproduction (brook trout)	Holcombe et al. (1976)	revised FFS (Louis Berger et al. 2014)
Silver	mg/kg	0.11	0.24	growth (rainbow trout)	Guadagnolo et al. (2001)	no value[d]	no value[d]	na	na	na
Zinc	mg/kg	287	403	growth (guppy)	Pierson (1981)	no value[d]	no value[d]	na	na	na

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] TRVs were derived from the primary literature review based on process described in the main text of the BERA.

[c] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007), as described in main text of the BERA.

[d] No TRVs were available in the revised FFS (Louis Berger et al. 2014) or draft FFS (Malcolm Pirnie 2007).

[e] NOAEL was extrapolated from LOAEL using an uncertainty factor of 10.

[f] No TRV selected; see Section 7.1.3.2 of the main text of the BERA for further explanation.

BERA – baseline ecological risk assessment
COPEC – chemical of potential ecological concern
FFS – focused feasibility study
LOAEL – lowest-observed-adverse-effect level
LPRSA – Lower Passaic River Study Area
na – not applicable
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
SSD – species sensitivity distribution
TRV – toxicity reference value
USEPA – US Environmental protection agency
ww – wet weight

3.1.3 HQ Results

Tables 3-5a and 3-5b present the fish tissue HQs for the COPECs in the three exposure areas: RM 8.3 to RM 17.4, RM 8.3 to RM 14.7, and RM 14.7 to RM 17.4.

Table 3-5a. Fish tissue LOAEL HQs

COPEC	Range of LOAEL HQs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Mummichog						
Mercury	0.14	0.19	0.14	0.19	na	na
Methylmercury	0.09	0.12	0.09	0.12	na	na
Selenium	0.51	na	0.51	na	na	na
Total PCBs	0.19	**1.3**	0.19	**1.3**	na	na
PCB TEQ – fish	0.0060 (0.031[e])	0.40	0.0060 (0.031[e])	0.40	na	na
2,3,7,8-TCDD	0.83 (**4.3**[e])	**56**	0.83 (**4.3**[e])	**56**	na	na
PCDD/PCDF TEQ – fish	0.83 (**4.3**[e])	**56**	0.83 (**4.3**[e])	**56**	na	na
Total TEQ – fish	0.83 (**4.3**[e])	**56**	0.83 (**4.3**[e])	**56**	na	na
Dieldrin	0.14	0.70	0.14	0.70	na	na
Endosulfan I	0.026	na	0.026	na	na	na
Total DDx	0.16	0.21	0.16	0.21	na	na
Other forage fish						
Mercury	0.28	0.37	0.43	0.58	0.14	0.18
Methylmercury	0.26	0.35	0.43	0.58	0.08	0.11
Selenium	0.41	na	0.56	na	0.48	na
Total PCBs	0.13	0.9	0.16	**1.2**	0.13	0.9
PCB TEQ – fish	0.0048 (0.025[e])	0.32	0.0053 (0.028[e])	0.36	0.0053 (0.028[e])	0.36
2,3,7,8-TCDD	0.27 (**1.4**[e])	**18**	0.48 (**2.5**[e])	**32**	0.13 (0.70[e])	**8.9**
PCDD/PCDF TEQ – fish	0.28 (**1.5**[e])	**19**	0.50 (**2.6**[e])	**33**	0.15 (0.78[e])	**10**
Total TEQ – fish	0.28 (**1.5**[e])	**19**	0.50 (**2.6**[e])	**33**	0.16 (0.83[e])	**11**
Dieldrin	0.075	0.38	0.085	0.43	0.085	0.43
Endosulfan I	0.048	na	0.048	na	0.035	na
Total DDx	0.11	0.14	0.14	0.18	0.11	0.14
Common carp						
Mercury	0.26	0.35	0.21	0.29	0.31	0.42
Methylmercury	0.20	0.27	0.18	0.24	0.26	0.35

Table 3-5a. Fish tissue LOAEL HQs

COPEC	Range of LOAEL HQs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Selenium	0.56	na	0.58	na	0.54	na
Total PCBs	**1.4**	**9.8**	**1.6**	**11**	0.45	**3.2**
PCB TEQ – fish	0.038 (0.20[e])	**2.5**	0.043 (0.22[e])	**2.8**	0.016 (0.083[e])	**1.1**
2,3,7,8-TCDD	**3.9 (20[e])**	**261**	**4.8 (25[e])**	**322**	0.38 (**2.0**[e])	**26**
PCDD/PCDF TEQ – fish	**4.1 (21[e])**	**272**	**5.0 (26[e])**	**333**	0.43 (**2.2**[e])	**28**
Total TEQ – fish	**4.1 (21[e])**	**272**	**5.0 (26[e])**	**333**	0.44 (**2.3**[e])	**29**
Dieldrin	0.27	**1.3**	0.29	**1.4**	0.24	**1.2**
Endosulfan I	0.13	na	0.13	na	0.028	na
Total DDx	**1.2**	**1.5**	**1.3**	**1.7**	0.25	0.33
White perch						
Mercury	0.54	0.73	0.63	0.85	0.31	0.42
Methylmercury	0.57	0.77	0.69	0.92	0.34	0.46
Selenium	**1.1**	na	**1.3**	na	0.52	na
Total PCBs	0.92	**6.6**	0.89	**6.4**	0.26	**1.9**
PCB TEQ – fish	0.017 (0.087[e])	**1.1**	0.020 (0.10[e])	**1.3**	0.010 (0.052[e])	0.7
2,3,7,8-TCDD	**1.2 (6.1[e])**	**78**	**1.5 (7.8[e])**	**100**	0.52 (**2.7[e]**)	**34**
PCDD/PCDF TEQ – fish	**1.2 (6.1[e])**	**78**	**1.6 (8.3[e])**	**106**	0.54 (**2.8[e]**)	**36**
Total TEQ – fish	**1.3 (6.5[e])**	**83**	**1.6 (8.3[e])**	**106**	0.56 (**2.9[e]**)	**37**
Dieldrin	0.17	0.83	0.20	0.98	0.13	0.63
Endosulfan I	0.0071	na	0.0071	na	0.025	na
Total DDx	0.37	0.49	0.46	0.62	0.23	0.31
Channel catfish						
Mercury	0.43	0.58	0.66	0.88	0.46	0.62
Methylmercury	0.40	0.54	0.66	0.88	0.43	0.58
Selenium	0.19	na	0.21	na	0.19	na
Total PCBs	0.45	**3.2**	0.63	**4.5**	0.53	**3.8**
PCB TEQ – fish	0.015 (0.078[e])	**1.0**	0.021 (0.11**[e]**)	**1.4**	0.018 (0.096[e])	**1.2**
2,3,7,8-TCDD	0.80 (**4.2[e]**)	**53**	1.2 (**6.1[e]**)	**78**	0.92 (**4.8[e]**)	**61**
PCDD/PCDF TEQ – fish	0.83 (**4.3[e]**)	**56**	1.3 (**6.5[e]**)	**83**	0.92 (**4.8[e]**)	**61**
Total TEQ – fish	0.83 (**4.3[e]**)	**56**	1.3 (**6.5[e]**)	**83**	0.92 (**4.8[e]**)	**61**

Table 3-5a. Fish tissue LOAEL HQs

COPEC	Range of LOAEL HQs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Dieldrin	0.24	**1.2**	0.27	**1.3**	0.28	**1.4**
Endosulfan I	0.065	na	0.065	na	0.12	na
Total DDx	0.54	0.72	0.56	0.74	0.67	0.90
Brown bullhead						
Mercury	0.40	0.54	0.40	0.54	na	na
Methylmercury	0.34	0.46	0.34	0.46	na	na
Selenium	0.56	na	0.56	na	na	na
Total PCBs	0.16	**1.1**	0.16	**1.1**	na	na
PCB TEQ – fish	0.0064 (0.033[e])	0.43	0.0064 (0.033[e])	0.43	na	na
2,3,7,8-TCDD	0.68 (**3.5**[e])	**45**	0.68 (**3.5**[e])	**45**	na	na
PCDD/PCDF TEQ – fish	0.71 (**3.7**[e])	**47**	0.71 (**3.7**[e])	**47**	na	na
Total TEQ – fish	0.72 (**3.7**[e])	**48**	0.72 (**3.7**[e])	**48**	na	na
Dieldrin	0.12	0.60	0.12	0.60	na	na
Endosulfan I	0.035	na	0.035	na	na	na
Total DDx	0.12	0.15	0.12	0.15	na	na
White catfish						
Mercury	0.71	0.96	0.83	**1.1**	0.69	0.92
Methylmercury	0.89	**1.2**	0.69	0.92	0.97	**1.3**
Selenium	0.23	na	0.25	na	0.29	na
Total PCBs	0.87	**6.2**	**1.0**	**7.2**	0.84	**6.0**
PCB TEQ – fish	0.028 (0.15 [e])	**1.9**	0.037 (0.19[e])	**2.4**	0.029 (0.15[e])	**1.9**
2,3,7,8-TCDD	**1.7 (8.7[e])**	**111**	**1.9 (10[e])**	**128**	**1.3 (7.0[e])**	**89**
PCDD/PCDF TEQ – fish	**1.7 (8.7[e])**	**111**	**2.0 (10[e])**	**133**	**1.4 (7.4[e])**	**94**
Total TEQ – fish	**1.8 (9.1[e])**	**117**	**2.0 (10[e])**	**133**	**1.4 (7.4[e])**	**94**
Dieldrin	0.15	0.75	0.14	0.70	0.24	1.2
Endosulfan I	0.048	na	0.048	na	0.048	na
Total DDx	0.77	**1.0**	0.92	**1.2**	0.90	**1.2**
White sucker						
Mercury	0.40	0.54	0.40	0.54	0.29	0.38
Methylmercury	0.37	0.50	0.37	0.50	0.28	0.37

Table 3-5a. Fish tissue LOAEL HQs

COPEC	Range of LOAEL HQs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Selenium	0.29	na	0.27	na	0.29	na
Total PCBs	0.76	**5.5**	0.76	**5.5**	0.22	**1.6**
PCB TEQ – fish	0.027 (0.14[e])	**1.8**	0.027 (0.14[e])	**1.8**	0.011 (0.057[e])	0.7
2,3,7,8-TCDD	**1.1 (5.7[e])**	**72**	**1.1 (5.7[e])**	**72**	0.092 (0.48[e])	**6.1**
PCDD/PCDF TEQ – fish	**1.1 (5.7[e])**	**72**	**1.1 (5.7[e])**	**72**	0.11 (0.57[e])	**7.2**
Total TEQ – fish	**1.1 (5.7[e])**	**72**	**1.1 (5.7[e])**	**72**	0.12 (0.61[e])	**7.8**
Dieldrin	0.13	0.63	0.13	0.63	0.09	0.43
Endosulfan I	0.015	na	0.019	na	0.015	na
Total DDx	0.29	0.38	0.29	0.38	0.14	0.19
American eel						
Mercury	0.60	0.81	0.77	**1.0**	0.54	0.73
Methylmercury	0.63	0.8	0.77	**1.0**	0.54	0.73
Selenium	0.54	na	0.59	na	0.69	na
Total PCBs	0.32	**2.3**	0.37	**2.6**	0.32	**2.3**
PCB TEQ – fish	0.0073 (0.038[e])	0.49	0.0080 (0.042[e])	0.53	0.010 (0.052[e])	0.67
2,3,7,8-TCDD	0.16 (0.83[e])	**11**	0.26 (**1.3**[e])	**17**	0.012 (0.061[e])	0.78
PCDD/PCDF TEQ – fish	0.25 (**1.3**[e])	**17**	0.27 (**1.4**[e])	**18**	0.028 (0.15[e])	**1.9**
Total TEQ – fish	0.24 (**1.3**[e])	**16**	0.28 (**1.4**[e])	**18**	0.038 (0.20[e])	**2.6**
Dieldrin	0.32	**1.6**	0.23	**1.2**	0.55	**2.8**
Endosulfan I	0.0065	na	0.0065	na	0.065	na
Total DDx	0.40	0.54	0.50	0.67	0.46	0.62
Largemouth bass						
Mercury	**1.9**	**2.6**	0.49	0.65	**1.9**	**2.6**
Methylmercury	**1.5**	**2.0**	0.40	0.5	**1.5**	**2.0**
Selenium	0.37	na	0.37	na	0.23	na
Total PCBs	**2.1**	**15**	0.55	**4.0**	**2.1**	**15**
PCB TEQ – fish	0.14 (0.74[e])	9.4	0.018 (0.091[e])	**1.2**	0.14 (0.74[e])	**9.4**
2,3,7,8-TCDD	**1.5 (7.8[e])**	**100**	**1.5 (7.8[e])**	**100**	0.0036 (0.019[e])	0.24
PCDD/PCDF TEQ – fish	**1.5 (7.8[e])**	**100**	**1.5 (7.8[e])**	**100**	0.017 (0.087[e])	**1.1**
Total TEQ – fish	**1.5 (7.8[e])**	**100**	**1.5 (7.8[e])**	**100**	0.16 (0.83[e])	**11**

Table 3-5a. Fish tissue LOAEL HQs

COPEC	Range of LOAEL HQs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Dieldrin	0.20	**1.0**	0.20	**1.0**	0.08	0.40
Endosulfan I	0.32	na	0.087	na	0.32	na
Total DDx	0.31	0.41	0.31	0.41	0.14	0.18
Northern pike						
Mercury	0.63	0.85	0.63	0.85	na	na
Methylmercury	0.51	0.69	0.51	0.69	na	na
Selenium	0.34	na	0.34	na	na	na
Total PCBs	0.53	**3.8**	0.53	**3.8**	na	na
PCB TEQ – fish	0.019 (0.10[e])	**1.3**	0.019 (0.10[e])	**1.3**	na	na
2,3,7,8-TCDD	0.79 (**4.1**[e])	**53**	0.79 (**4.1**[e])	**53**	na	na
PCDD/PCDF TEQ – fish	0.83 (**4.3**[e])	**56**	0.83 (**4.3**[e])	**56**	na	na
Total TEQ – fish	0.92 (**4.8**[e])	**61**	0.92 (**4.8**[e])	**61**	na	na
Dieldrin	0.22	**1.1**	0.22	**1.1**	na	na
Endosulfan I	0.068	na	0.068	na	na	na
Total DDx	0.54	0.72	0.54	0.72	na	na
Smallmouth bass						
Mercury	0.86	**1.2**	0.86	**1.2**	0.63	0.85
Methylmercury	0.63	0.85	0.63	0.85	0.46	0.62
Selenium	0.43	na	0.43	na	0.32	na
Total PCBs	0.37	**2.6**	0.37	**2.6**	0.26	**1.8**
PCB TEQ – fish	0.012 (0.061[e])	0.78	0.012 (0.061[e])	0.78	0.0083 (0.043[e])	0.56
2,3,7,8-TCDD	0.63 (**3.3**[e])	**42**	0.63 (**3.3**[e])	**42**	0.067 (0.35[e])	**4.4**
PCDD/PCDF TEQ – fish	0.63 (**3.3**[e])	**42**	0.63 (**3.3**[e])	**42**	0.072 (0.37[e])	**4.8**
Total TEQ – fish	0.68 (**3.6**[e])	**46**	0.68 (**3.6**[e])	**46**	0.082 (0.43[e])	**5.4**
Dieldrin	0.10	0.48	0.10	0.48	0.080	0.40
Endosulfan I	0.045	na	0.022	na	0.045	na
Total DDx	0.25	0.33	0.25	0.33	0.19	0.26

Bold identifies HQs ≥ 1.0.

Shaded cells identify HQs ≥ 1.0 based on a LOAEL TRV.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single

TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] HQs were based on EPCs in Table 3-3a and TRVs in Table 3-4a.

[c] TRVs were derived from the primary literature review based on the process described in the main text of the BERA(Windward 2019).

[d] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007).

[e] HQs in parenthesis were based on additional alternative SSD-derived LOAELs evaluated; see the main text of the BERA for details.

BERA – baseline ecological risk assessment
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
EPC – exposure point concentration
FFS – focused feasibility study
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
na – not applicable
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PCB – polychlorinated biphenyl
PCDD– polychlorinated dibenzo-*p*-dioxin
PCDF –polychlorinated dibenzofuran
RM – river mile
SSD – species sensitivity distribution
TCDD – tetrachlorodibenzo-*p*-dioxin
TEQ – toxic equivalents
TRV – toxicity reference value
USEPA – US Environmental Protection Agency
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

Table 3-5b. Fish tissue NOAEL HQs

COPEC	Range of NOAEL HQs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Mummichog						
Mercury	**1.4**	0.96	**1.4**	0.96	na	na
Methylmercury	0.89	0.60	0.89	0.60	na	na
Selenium	na	na	na	na	na	na
Total PCBs	**1.9**	**4.2**	**1.9**	**4.2**	na	na
PCB TEQ – fish	0.60 (0.31[e])	0.81	0.60 (0.31[e]	0.81	na	na
2,3,7,8-TCDD	**8.3 (43[e])**	**112**	**8.3 (43[e])**	**112**	na	na
PCDD/PCDF TEQ – fish	**8.3 (43[e])**	**112**	**8.3 (43[e])**	**112**	na	na
Total TEQ – fish	**8.3 (43[e])**	**112**	**8.3 (43[e])**	**112**	na	na
Dieldrin	0.23	3.5	0.23	3.5	na	na
Endosulfan I	0.26	na	0.26	na	na	na
Total DDx	**1.6**	**1.0**	**1.6**	**1.0**	na	na
Other forage fish						
Mercury	**2.8**	**1.9**	**4.3**	**2.9**	**1.4**	0.9
Methylmercury	**2.6**	**1.7**	**4.3**	**2.9**	0.83	0.6
Selenium	na	na	na	na	na	na
Total PCBs	**1.3**	**2.8**	**1.6**	**3.6**	**1.3**	**2.8**
PCB TEQ – fish	0.048 (0.25[e])	0.64	0.053 (0.28[e])	0.72	0.053 (0.28[e])	0.72
2,3,7,8-TCDD	**2.7 (14[e])**	**36**	**4.8 (25[e])**	**64**	**1.3 (7.0[e])**	**18**
PCDD/PCDF TEQ – fish	**2.8 (15[e])**	**38**	**5.0 (26[e])**	**67**	**1.5 (7.8[e])**	**20**
Total TEQ – fish	**2.8 (15[e])**	**38**	**5.0 (26[e])**	**67**	**1.6 (8.3[e])**	**21**
Dieldrin	0.13	**1.9**	0.14	**2.1**	0.14	**2.1**
Endosulfan I	0.48	na	0.48	na	0.35	na
Total DDx	**1.1**	0.71	**1.4**	0.91	**1.1**	0.72
Common carp						
Mercury	**2.6**	**1.8**	**2.1**	**1.4**	**3.1**	**2.1**
Methylmercury	**2.0**	**1.3**	**1.8**	**1.2**	**2.6**	**1.7**
Selenium	na	na	na	na	na	na
Total PCBs	**14**	**31**	**16**	**35**	**4.5**	**10**
PCB TEQ – fish	0.38 (**2.0[e]**)	**5.1**	0.43 (**2.2[e]**)	**5.7**	0.16 (0.83 [e])	**2.1**
2,3,7,8-TCDD	**39 (204[e])**	**528**	**48 (252)**	**652**	**3.8 (20[e])**	**52**

Table 3-5b. Fish tissue NOAEL HQs

COPEC	Range of NOAEL HQs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
PCDD/PCDF TEQ – fish	**41 (213[e])**	**551**	**50 (261[e])**	**674**	**4.3 (22[e])**	**57**
Total TEQ – fish	**41 (213[e])**	**551**	**50 (261[e])**	**674**	**4.4 (23[e])**	**60**
Dieldrin	0.44	**6.6**	0.48	**7.1**	0.40	**6.0**
Endosulfan I	**1.3**	na	**1.3**	na	0.28	na
Total DDx	**12**	**7.7**	**13**	**8.7**	**2.5**	**1.7**
White perch						
Mercury	**5.4**	**3.7**	**6.3**	**4.2**	**3.1**	**2.1**
Methylmercury	**5.7**	**3.8**	**6.9**	**4.6**	**3.4**	**2.3**
Selenium	na	na	na	na	na	na
Total PCBs	**9.2**	**21**	**8.9**	**20**	**2.6**	**6.0**
PCB TEQ – fish	0.17 (0.87[e])	**2.2**	0.20 (**1.0**[e])	**2.7**	0.10 (0.52[e])	**1.3**
2,3,7,8-TCDD	**12 (61[e])**	**157**	**15 (78[e])**	**202**	**5.2 (27[e])**	**70**
PCDD/PCDF TEQ – fish	**12 (61[e])**	**157**	**16 (83[e])**	**213**	**5.4 (28[e])**	**73**
Total TEQ – fish	**13 (65[e])**	**169**	**16 (83[e])**	**213**	**5.6 (29[e])**	**75**
Dieldrin	0.28	**4.1**	0.33	**4.9**	0.21	**3.1**
Endosulfan I	0.071	na	0.071	na	0.25	na
Total DDx	**3.7**	**2.4**	**4.6**	**3.1**	**2.3**	**1.5**
Channel catfish						
Mercury	**4.3**	**2.9**	**6.6**	**4.4**	**4.6**	**3.1**
Methylmercury	**4.0**	**2.7**	**6.6**	**4.4**	**4.3**	**2.9**
Selenium	na	na	na	na	na	na
Total PCBs	**4.5**	**10**	**6.3**	**14**	**5.3**	**12**
PCB TEQ – fish	0.15 (0.78[e])	**2.0**	0.21 (**1.1**[e])	**2.8**	0.18 (0.96[e])	**2.5**
2,3,7,8-TCDD	**8.0 (42[e])**	**108**	**12 (61[e])**	**157**	**9.2 (48[e])**	**124**
PCDD/PCDF TEQ – fish	**8.3 (43[e])**	**112**	**13 (65[e])**	**169**	**9.2 (48[e])**	**124**
Total TEQ – fish	**8.3 (43[e])**	**112**	**13 (65[e])**	**169**	**9.2 (48[e])**	**124**
Dieldrin	0.39	**5.9**	0.44	**6.6**	0.47	**7.0**
Endosulfan I	0.65	na	0.65	na	**1.2**	na
Total DDx	**5.4**	**3.6**	**5.6**	**3.7**	**6.7**	**4.5**
Brown bullhead						

Table 3-5b. Fish tissue NOAEL HQs

COPEC	Range of NOAEL HQs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Mercury	**4.0**	**2.7**	**4.0**	**2.7**	na	na
Methylmercury	**3.4**	**2.3**	**3.4**	**2.3**	na	na
Selenium	na	na	na	na	na	na
Total PCBs	**1.6**	**3.5**	**1.6**	**3.5**	na	na
PCB TEQ – fish	0.064 (**0.33[e]**)	0.87	0.064 (**0.33[e]**)	0.87	na	na
2,3,7,8-TCDD	**6.8 (35[e])**	**91**	**6.8 (35[e])**	**91**	na	na
PCDD/PCDF TEQ – fish	**7.1 (37[e])**	**96**	**7.1 (37[e])**	**96**	na	na
Total TEQ – fish	**7.2 (37[e])**	**97**	**7.2 (37[e])**	**97**	na	na
Dieldrin	0.20	**3.0**	0.20	**3.0**	na	na
Endosulfan I	0.35	na	0.35	na	na	na
Total DDx	**1.2**	0.77	**1.2**	0.77	na	na
White catfish						
Mercury	**7.1**	**4.8**	**8.3**	**5.6**	**6.9**	**4.6**
Methylmercury	**8.9**	**6.0**	**6.9**	**4.6**	**9.7**	**6.5**
Selenium	na	na	na	na	na	na
Total PCBs	**8.7**	**19**	**10**	**22**	**8.4**	**19**
PCB TEQ – fish	0.28	**3.8**	0.37	**4.9**	0.29	**3.9**
2,3,7,8-TCDD	**17 (87[e])**	**225**	**19 (100[e])**	**258**	**13 (70[e])**	**180**
PCDD/PCDF TEQ – fish	**17 (87[e])**	**225**	**20 (104[e])**	**270**	**14 (74[e])**	**191**
Total TEQ – fish	**18 (91[e])**	**236**	**20 (104[e])**	**270**	**14 (74[e])**	**191**
Dieldrin	0.25	**3.8**	0.23	**3.5**	0.40	**6.0**
Endosulfan I	0.48	na	0.48	na	0.48	na
Total DDx	**7.7**	**5.1**	**9.2**	**6.2**	**9.0**	**6.0**
White sucker						
Mercury	**4.0**	**2.7**	**4.0**	**2.7**	**2.9**	**1.9**
Methylmercury	**3.7**	**2.5**	**3.7**	**2.5**	**2.8**	**1.9**
Selenium	na	na	na	na	na	na
Total PCBs	**7.6**	**17**	**7.6**	**17**	**2.2**	**5.0**
PCB TEQ – fish	0.27 (**1.4[e]**)	**3.6**	0.27(**1.4[e]**)	**3.6**	0.11 (**0.57[e]**)	**1.5**
2,3,7,8-TCDD	**11 (57[e])**	**146**	**11 (57[e])**	**146**	0.92 (**4.8[e]**)	**12**

Table 3-5b. Fish tissue NOAEL HQs

COPEC	Range of NOAEL HQs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
PCDD/PCDF TEQ – fish	**11 (57[e])**	**146**	**11 (57)**	**146**	**1.1 (5.7[e])**	**15**
Total TEQ – fish	**11 (57[e])**	**146**	**11 (57[e])**	**146**	**1.2 (6.1[e])**	**16**
Dieldrin	0.21	**3.1**	0.21	**3.1**	0.14	**2.1**
Endosulfan I	0.15	na	0.19	na	0.15	na
Total DDx	**2.9**	**1.9**	**2.9**	**1.9**	**1.4**	0.94
American eel						
Mercury	**6.0**	**4.0**	**7.7**	**5.2**	**5.4**	**3.7**
Methylmercury	**6.3**	**4.2**	**7.7**	**5.2**	**5.4**	**3.7**
Selenium	na	na	na	na	na	na
Total PCBs	**3.2**	**7.1**	**3.7**	**8**	**3.2**	**7.1**
PCB TEQ – fish	0.073 (**0.38[e]**)	0.99	0.080 (**0.42[e]**)	**1.1**	0.10 (**0.52[e]**)	**1.3**
2,3,7,8-TCDD	**1.6 (8.3[e])**	**21**	**2.6 (14[e])**	**35**	0.12 (**0.61[e]**)	**1.6**
PCDD/PCDF TEQ – fish	**2.5 (13[e])**	**34**	**2.7 (14[e])**	**36**	0.28 (**1.5[e]**)	**3.8**
Total TEQ – fish	**2.4 (13[e])**	**33**	**2.8 (14[e])**	**37**	0.38 (**2.0[e]**)	**5.2**
Dieldrin	0.53	**7.9**	0.38	**5.8**	0.92	**14**
Endosulfan I	0.065	na	0.065	na	0.65	na
Total DDx	**4.0**	**2.7**	**5.0**	**3.3**	**4.6**	**3.1**
Largemouth bass						
Mercury	**19**	**13**	**4.9**	**3.3**	**19**	**13**
Methylmercury	**15**	**10**	**4.0**	**2.7**	**15**	**10**
Selenium	na	na	na	na	na	na
Total PCBs	**21**	**46**	**5.5**	**12**	**21**	**46**
PCB TEQ – fish	**1.4 (7.4[e])**	**19**	0.18 (**0.91[e]**)	**2.4**	**1.4 (7.4)**	**19**
2,3,7,8-TCDD	**15 (78[e])**	**202**	**15 (78[e])**	**202**	0.036 (**0.19[e]**)	0.48
PCDD/PCDF TEQ – fish	**15 (78[e])**	**202**	**15 (78[e])**	**202**	0.17 (**0.87[e]**)	**2.2**
Total TEQ – fish	**15 (78[e])**	**202**	**15 (78[e])**	**202**	**1.6 (8.3[e])**	**21**
Dieldrin	0.33	**5.0**	0.33	**5.0**	0.13	**2.0**
Endosulfan I	**3.2**	na	0.87	na	**3.2**	na
Total DDx	**3.1**	**2.1**	**3.1**	**2.1**	**1.4**	0.92

Table 3-5b. Fish tissue NOAEL HQs

COPEC	Range of NOAEL HQs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Northern pike						
Mercury	**6.3**	**4.2**	**6.3**	**4.2**	na	na
Methylmercury	**5.1**	**3.5**	**5.1**	**3.5**	na	na
Selenium	na	na	na	na	na	na
Total PCBs	**5.3**	**12**	**5.3**	**12**	na	na
PCB TEQ – fish	0.19 (**1.0**[e])	**2.6**	0.19 (**1.0**[e])	**2.6**	na	na
2,3,7,8-TCDD	**7.9 (41[e])**	**107**	**7.9 (41[e])**	**107**	na	na
PCDD/PCDF TEQ – fish	**8.3 (44[e])**	**112**	**8.3 (44[e])**	**112**	na	na
Total TEQ – fish	**9.2 (48[e])**	**124**	**9.2 (48[e])**	**124**	na	na
Dieldrin	0.36	**5.4**	0.36	**5.4**	na	na
Endosulfan I	0.68	na	0.68	na	na	na
Total DDx	**5.4**	**3.6**	**5.4**	**3.6**	na	na
Smallmouth bass						
Mercury	**8.6**	**5.8**	**8.6**	**5.8**	**6.3**	**4.2**
Methylmercury	**6.3**	**4.2**	**6.3**	**4.2**	**4.6**	**3.1**
Selenium	na	na	na	na	na	na
Total PCBs	**3.7**	**8.2**	**3.7**	**8.2**	**2.6**	**5.8**
PCB TEQ – fish	0.12 (0.61[e]	**1.6**	0.12 (0.61[e])	**1.6**	0.083 (0.44[e])	**1.1**
2,3,7,8-TCDD	**6.3 (33[e])**	**85**	**6.3 (33[e])**	**85**	0.67 **(3.5[e])**	**9.0**
PCDD/PCDF TEQ – fish	**6.3 (33[e])**	**85**	**6.3 (33[e])**	**85**	0.72 **(3.7[e])**	**9.7**
Total TEQ – fish	**6.8 (36[e])**	**92**	**6.8 (36[e])**	**92**	0.82 **(4.3[e])**	**11**
Dieldrin	0.16	**2.4**	0.16	**2.4**	0.13	**2.0**
Endosulfan I	0.45	na	0.22	na	0.45	na
Total DDx	**2.5**	**1.7**	**2.5**	**1.7**	**1.9**	**1.3**

Bold identifies HQs ≥ 1.0.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] HQs were based on EPCs in Table 3-3a and TRVs in Table 3-4a.

[c] TRVs were derived from the primary literature review based on the process described in the main text of the BERA.

[d] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007).

BERA – baseline ecological risk assessment
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
EF – exceedance factor
EPC – exposure point concentration
FFS – focused feasibility study
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
na – not applicable
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PCB – polychlorinated biphenyl
PCDD– polychlorinated dibenzo-*p*-dioxin
PCDF –polychlorinated dibenzofuran
RM – river mile
TCDD – tetrachlorodibenzo-*p*-dioxin
TEQ – toxic equivalents
TRV – toxicity reference value
USEPA – US Environmental Protection Agency
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

3.1.4 Key uncertainties

The key uncertainties associated with the fish tissue risk characterization are discussed in the BERA. There is high uncertainty associated with the risk estimates for inorganic metals due to the varying ways fish uptake, bioaccumulate, and regulate metals within tissues. The risk estimates for regulated metals were evaluated in the uncertainty section of the BERA, and the uncertainties related to regulated metals were further discussed in the same document. Tables 3-6a and 3-6b provide tissue LOAEL and NOAEL EFs for the three exposure areas.

Table 3-6a. Fish tissue LOAEL EFs

COPEC	Range of LOAEL EFs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Mummichog						
Arsenic	0.11	na	0.11	na	na	na
Cadmium	0.33	na	0.33	na	na	na
Copper	na	**2.5**	na	**2.5**	na	na
Lead	0.78	0.78	0.78	0.78	na	na
Silver	0.18	na	0.18	na	na	na
Zinc	0.10	na	0.10	na	na	na
Other forage fish						
Arsenic	0.11	na	0.15	na	0.08	na
Cadmium	0.31	na	0.34	na	0.23	na
Copper	na	**2.7**	na	**2.7**	na	**2.5**

Table 3-6a. Fish tissue LOAEL EFs

COPEC	Range of LOAEL EFs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Lead	0.68	0.68	0.80	0.80	0.78	0.78
Silver	0.15	na	0.20	na	0.12	na
Zinc	0.095	na	0.081	na	0.119	na
Common carp						
Arsenic	0.060	na	0.080	na	0.068	na
Cadmium	0.23	na	0.18	na	0.34	na
Copper	na	0.80	na	0.60	na	1.07
Lead	0.22	0.22	0.23	0.23	0.24	0.24
Silver	0.050	na	0.033	na	0.050	na
Zinc	0.20	na	0.21	na	0.18	na
White perch						
Arsenic	0.080	na	0.088	na	0.072	na
Cadmium	0.13	na	0.14	na	0.11	na
Copper	na	**6.7**	na	**8.0**	na	**5.1**
Lead	0.15	0.15	0.16	0.16	0.12	0.12
Silver	0.54	na	0.71	na	0.23	na
Zinc	0.069	na	0.070	na	0.070	na
Channel catfish						
Arsenic	0.022	na	0.030	na	0.022	na
Cadmium	0.088	na	0.11	na	0.10	na
Copper	na	0.87	na	0.42	na	**1.4**
Lead	0.075	0.075	0.070	0.070	0.090	0.090
Silver	0.058	na	0.0079	na	0.058	na
Zinc	0.050	na	0.055	na	0.047	na
Brown bullhead						
Arsenic	0.039	na	0.039	na	na	na
Cadmium	0.19	na	0.19	na	na	na
Copper	na	0.63	na	0.63	na	na
Lead	0.21	0.21	0.21	0.21	na	na
Silver	0.025	na	0.025	na	na	na
Zinc	0.042	na	0.042	na	na	na

Table 3-6a. Fish tissue LOAEL EFs

COPEC	Range of LOAEL EFs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
White catfish						
Arsenic	0.021	na	0.023	na	0.021	na
Cadmium	0.10	na	0.12	na	0.10	na
Copper	na	0.47	na	0.48	na	0.55
Lead	0.14	0.14	0.15	0.15	0.17	0.17
Silver	0.028	na	0.028	na	0.011	na
Zinc	0.042	na	0.042	na	0.047	na
White sucker						
Arsenic	0.044	na	0.028	na	0.044	na
Cadmium	0.081	na	0.023	na	0.081	na
Copper	na	0.73	na	0.73	na	0.64
Lead	0.063	0.063	0.055	0.055	0.063	0.063
Silver	0.019	na	0.016	na	0.019	na
Zinc	0.046	na	0.042	na	0.046	na
American eel						
Arsenic	0.06	na	0.040	na	0.10	na
Cadmium	0.81	na	**1.1**	na	**1.2**	na
Copper	na	**2.9**	na	**4.7**	na	**1.0**
Lead	0.25	0.25	0.24	0.24	0.33	0.33
Silver	0.10	na	0.13	na	0.038	na
Zinc	0.073	na	0.076	na	0.078	na
Largemouth bass						
Arsenic	0.027	na	0.026	na	0.027	na
Cadmium	0.23	na	0.23	na	0.021	na
Copper	na	0.39	na	0.39	na	0.27
Lead	0.030	0.030	0.030	0.030	0.0050	0.0050
Silver	0.011	na	0.011	na	0.011	na
Zinc	0.040	na	0.040	na	0.038	na
Northern pike						
Arsenic	0.048	na	0.048	na	na	na
Cadmium	0.022	na	0.022	na	na	na

Table 3-6a. Fish tissue LOAEL EFs

COPEC	Range of LOAEL EFs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Copper	na	0.38	na	0.38	na	na
Lead	0.0083	0.0083	0.0083	0.0083	na	na
Silver	0.012	na	0.012	na	na	na
Zinc	0.084	na	0.084	na	na	na
Smallmouth bass						
Arsenic	0.10	na	0.09	na	0.10	na
Cadmium	0.056	na	0.056	na	0.046	na
Copper	na	0.53	na	0.53	na	0.27
Lead	0.025	0.025	0.025	0.025	0.023	0.023
Silver	0.012	na	0.012	na	0.011	na
Zinc	0.046	na	0.044	na	0.046	na

Bold identifies EFs ≥ 1.0.

Shaded cells identify EFs ≥ 1.0 based on a LOAEL TRV.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] EFs were based on EPCs in Table 3-3b and TRVs in Table 3-4b.

[c] TRVs were derived from the primary literature review based on the process described in the main text of the BERA.

[d] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007).

BERA – baseline ecological risk assessment
COPEC – chemical of potential ecological concern
EF – exceedance factor
EPC – exposure point concentration
FFS – focused feasibility study
LOAEL – lowest-observed-adverse-effect level
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
na – not applicable
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
RM – river mile
SSD – species sensitivity distribution
TRV – toxicity reference value
USEPA – US Environmental Protection Agency

Table 3-6b. Fish tissue NOAEL EFs

COPEC	Range of NOAEL HQs and EFs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Mummichog						
Arsenic	0.21	na	0.21	na	na	na
Cadmium	**3.3**	na	**3.3**	na	na	na
Copper	na	**12**	na	**12**	na	na
Lead	**1.2**	**7.8**	**1.2**	**7.8**	na	na
Silver	0.39	na	0.39	na	na	na
Zinc	0.15	na	0.15	na	na	na
Other forage fish						
Arsenic	0.21	na	0.29	na	0.16	na
Cadmium	**3.1**	na	**3.4**	na	**2.3**	na
Copper	na	**13**	na	**13**	na	**12**
Lead	**1.1**	**6.8**	**1.3**	**8.0**	**1.2**	**7.8**
Silver	0.34	na	0.43	na	0.25	na
Zinc	0.13	na	0.11	na	0.17	na
Common carp						
Arsenic	0.12	na	0.15	na	0.13	na
Cadmium	**2.3**	na	**1.8**	na	**3.4**	na
Copper	na	**3.8**	na	**2.8**	na	**5.0**
Lead	0.36	**2.2**	0.37	**2.3**	0.38	**2.4**
Silver	0.11	na	0.073	na	0.11	na
Zinc	0.28	na	0.30	na	0.25	na
White perch						
Arsenic	0.15	na	0.17	na	0.14	na
Cadmium	**1.3**	na	**1.4**	na	**1.1**	na
Copper	na	**31**	na	38	na	**24**
Lead	0.24	**1.5**	0.25	**1.6**	0.19	**1.2**
Silver	**1.2**	na	**1.5**	na	0.50	na
Zinc	0.097	na	0.098	na	0.099	na
Channel catfish						
Arsenic	0.042	na	0.058	na	0.042	na
Cadmium	0.88	na	**1.1**	na	**1.0**	na
Copper	na	**4.1**	na	**2.0**	na	**6.6**

Table 3-6b. Fish tissue NOAEL EFs

COPEC	Range of NOAEL HQs and EFs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Lead	0.12	0.75	0.11	0.70	0.14	0.90
Silver	0.13	na	0.017	na	0.13	na
Zinc	0.070	na	0.077	na	0.066	na
Brown bullhead						
Arsenic	0.075	na	0.075	na	na	na
Cadmium	**1.9**	na	**1.9**	na	na	na
Copper	na	**2.9**	na	**2.9**	na	na
Lead	0.33	**2.1**	0.33	**2.1**	na	na
Silver	0.055	na	0.055	na	na	na
Zinc	0.059	na	0.059	na	na	na
White catfish						
Arsenic	0.040	na	0.045	na	0.041	na
Cadmium	**1.0**	na	**1.2**	na	**1.0**	na
Copper	na	**2.2**	na	**2.3**	na	**2.6**
Lead	0.23	**1.4**	0.24	**1.5**	0.26	**1.7**
Silver	0.060	na	0.060	na	0.024	na
Zinc	0.059	na	0.059	na	0.066	na
White sucker						
Arsenic	0.085	na	0.053	na	0.085	na
Cadmium	0.81	na	0.23	na	0.81	na
Copper	na	**3.4**	na	**3.4**	na	**3.0**
Lead	0.10	0.63	0.088	0.55	0.10	0.63
Silver	0.041	na	0.035	na	0.041	na
Zinc	0.065	na	0.059	na	0.065	na
American eel						
Arsenic	0.11	na	0.077	na	0.20	na
Cadmium	**8.1**	na	**11**	na	**12**	na
Copper	na	**13**	na	**22**	na	**4.7**
Lead	0.40	**2.5**	0.38	**2.4**	0.52	**3.3**
Silver	0.21	na	0.28	na	0.082	na
Zinc	0.10	na	0.11	na	0.11	na
Largemouth bass						

Table 3-6b. Fish tissue NOAEL EFs

COPEC	Range of NOAEL HQs and EFs[a,b]					
	RM 8.3–RM 17.4		RM 8.3–RM 14.7		RM 14.7–RM 17.4	
	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]	Based on TRV-A[c]	Based on TRV-B[d]
Arsenic	0.052	na	0.049	na	0.052	na
Cadmium	**2.3**	na	**2.3**	na	0.21	na
Copper	na	**1.8**	na	**1.8**	na	**1.3**
Lead	0.048	0.30	0.048	0.30	0.0080	0.050
Silver	0.024	na	0.024	na	0.024	na
Zinc	0.056	na	0.056	na	0.054	na
Northern pike						
Arsenic	0.092	na	0.092	na	na	na
Cadmium	0.22	na	0.22	na	na	na
Copper	na	**1.8**	na	**1.8**	na	na
Lead	0.013	0.083	0.013	0.083	na	na
Silver	0.025	na	0.025	na	na	na
Zinc	0.12	na	0.12	na	na	na
Smallmouth bass						
Arsenic	0.19	na	0.17	na	0.19	na
Cadmium	0.56	na	0.56	na	0.46	na
Copper	na	2.5	na	**2.5**	na	**1.3**
Lead	0.039	0.25	0.039	0.25	0.037	0.23
Silver	0.025	na	0.025	na	0.024	na
Zinc	0.064	na	0.062	na	0.064	na

Bold identifies EFs ≥ 1.0.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] EFs were based on EPCs in Table 3-3b and TRVs in Table 3-4b.

[c] TRVs were derived from the primary literature review based on the process described in the main text of the BERA.

[d] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007).

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NOAEL – no-observed-adverse-effect level
RM – river mile
TRV – toxicity reference value
USEPA – US Environmental Protection Agency

3.1.5 Summary

In whole-body tissue, 17 COPECs were evaluated for 12 fish species. HQs were ≥ 1.0 for one or more species (based on UCLs, or, due to the small spatial scale, a maximum concentration) for methylmercury/mercury, total PCBs, PCB TEQ - fish, 2,3,7,8-TCDD, PCDD/PCDF TEQ - fish, total TEQ - fish, total DDx (sum of all six dichlorodiphenyltrichloroethane [DDT] isomers [2,4′-dichlorodiphenyldichloroethane (DDD), 4,4′-DDD, 2,4′-dichlorodiphenyldichloroethylene (DDE), 4,4′-DDE, 2,4′-DDT, and 4,4′-DDT]), and dieldrin. A summary of the fish tissue LOAEL HQs is presented in Table 3-7. Risk estimates for regulated metals (presented as EFs) are presented in Table 3-8. As discussed in the BERA, there is high uncertainty associated with the risk estimates for inorganic metals due to the varying ways invertebrates uptake, bioaccumulate, and regulate metals within tissues. Consistent with USEPA's recommendation for metals (USEPA 2007e), fish tissue metal HQs should not be used for the purposes of risk management conclusions and decisions.

Fish tissue COPECs with LOAEL HQs > 1.0 were the same as those in the 17.4 mile BERA, with the exception of selenium and cadmium. These COPECs had LOAEL HQs ≥ 1.0 in this upper 9-mile evaluation for one species (American eel [for cadmium] and white perch [for selenium]) but LOAEL HQs < 1.0 in the BERA for all fish species. HQs in the BERA were similar to those in this upper 9-mile evaluation, although total DDx risks were < 1.0 for carp in the upper segment exposure area (RM 14.7 to RM 17.4).

Table 3-7. Summary of fish tissue LOAEL HQs

COPEC[b]	Range of LOAEL HQs[a]				Key Uncertainties
	HQ Based on TRV-A[c]		HQ Based on TRV-B[d]		
	Fish Species with HQs ≥ 1.0	LOAEL HQ Values ≥ 1.0	Fish Species with HQs ≥ 1.0	LOAEL HQ Values ≥ 1.0	
Organic metals					
Methylmercury/ mercury	HQs ≥ 1.0 for largemouth bass only (> RM 8.3 and RM 14.7–RM 17.4 only)	**1.5–1.9**	HQs ≥ 1.0 for largemouth bass (> RM 8.3 and RM 14.7–RM 17.4 only), American eel (RM 14.7–RM 17.4 only), smallmouth bass (> RM 8.3 and RM 8.3–RM 14.7 only), and white catfish	**1.0–2.6**	• TRV-A and TRV-B derived using SSDs • EPCs for largemouth bass based on maximum tissue concentrations (insufficient data for UCL derivation)
Selenium	HQs ≥ 1.0 for white perch only (> RM 8.3 and RM 8.3–RM 14.7 only)	**1.1–1.3**	nc	nc	• TRV-A based on comprehensive TRV review by DeForest and Adams (2011)
PCBs					
Total PCBs	HQs ≥ 1.0 for largemouth bass (< RM 8.3 and RM 14.7–RM 17.4 only), white catfish (RM 8.3–RM 14.7 only), and common carp (> RM 8.3, RM 8.3–RM 14.7)	**1.0–2.1**	HQs ≥ 1.0 for all fish species evaluated	**1.1–15**	• TRV-A based on SSD less than lowest measured LOAEL • TRV-B based on changes in smolt seawater preference in Atlantic salmon • EPCs for largemouth bass based on maximum tissue concentrations (insufficient data for UCL derivation)
PCB TEQ - fish	HQs < 1.0 for all fish species evaluated	all HQs < 1.0	HQs ≥ 1.0 for white perch (> RM 8.3 and RM 8.3–RM 17.4 only), channel catfish, largemouth bass, common carp, white catfish, white sucker (> RM 8.3 and RM 8.3–RM 17.4 only), and northern pike (> RM 8.3 & RM 8.3–RM 14.7 only)	**1.0–9.4**	• TRV-A based on SSD within range of measured LOAELs evaluated • Alternative TRV-A based on SSD with relatively poor visual and statistical fits to the empirical data, likely over-predicting risk; alternative SSD less than lowest measured LOAEL • TRV-B based on interpolated larvae concentration from egg tissue

Table 3-7. Summary of fish tissue LOAEL HQs

COPEC[b]	Range of LOAEL HQs[a]				Key Uncertainties
	HQ Based on TRV-A[c]		HQ Based on TRV-B[d]		
	Fish Species with HQs ≥ 1.0	LOAEL HQ Values ≥ 1.0	Fish Species with HQs ≥ 1.0	LOAEL HQ Values ≥ 1.0	
PCDDs/PCDFs					
2,3,7,8-TCDD	HQs ≥ 1.0 for white perch (> RM 8.3 and RM 8.3–RM 14.7), largemouth bass (> RM 8.3 and RM 8.3–RM 14.7), channel catfish (RM 8.3–RM 14.7 only), white sucker (> RM 8 and RM 8.3–RM 14.7), common carp (> RM 8.3 and RM 8.3–RM 14.7), and white catfish (HQs ≥ 1.0 for all fish species[d] evaluated)	**1.1–4.8** (**1.3–25**[e])	HQs ≥ 1.0 for all fish species evaluated	**4.4–320**	• TRV-A based on SSD within range of measured LOAELs evaluated • Alternative TRV-A based on SSD with relatively poor visual and statistical fits to the empirical data, likely over-predicting risk; alternative SSD less than lowest measured LOAEL • TRV-B based on interpolated larvae concentration from egg tissue
PCDD/PCDF TEQ - fish	HQs ≥ 1.0 for white perch (> RM 8.3 and RM 8.3–RM 14.7), largemouth bass (> RM 8 and RM 8.3–RM 14.7), channel catfish (RM 8.3–RM 14.7 only), white sucker (> RM 8.3 and RM 8.3–RM 14.7), common carp (> RM 8.3 and RM 8.3–RM 14.7), and white catfish (HQs ≥ 1.0 for all fish species[d] evaluated)	**1.1– 5.0** (**1.3–26**[e])	HQs ≥ 1.0 for all fish species evaluated	**1.1–330**	
Total TEQ - fish	HQs ≥ 1.0 for white perch (> RM 8.3 and RM 8–RM 14.7), largemouth bass (> RM 8 and RM 8.3–RM 14.7), channel catfish (RM 8.3–RM 14.7 only), white sucker (> RM 8 and RM 8.3–RM 14.7), common carp (> RM 8.3 and RM –RM 14.7), and white catfish (HQs ≥ 1.0 for all fish species[d] evaluated)	**1.1–5.0** (**1.3–26**[e])	HQs ≥ 1.0 for all fish species evaluated	**2.6–330**	

Table 3-7. Summary of fish tissue LOAEL HQs

COPEC[b]	Range of LOAEL HQs[a]				Key Uncertainties
	HQ Based on TRV-A[c]		HQ Based on TRV-B[d]		
	Fish Species with HQs ≥ 1.0	LOAEL HQ Values ≥ 1.0	Fish Species with HQs ≥ 1.0	LOAEL HQ Values ≥ 1.0	
Organochlorine pesticides					
Dieldrin	HQs < 1.0 for all fish species evaluated	all HQs < 1.0	HQs ≥ 1.0 for channel catfish, white catfish (RM14.7–RM 17.4 only), American eel, largemouth bass (> RM 8.3 and RM 8.3–RM 14.7 only), northern pike (> RM 8.3 and RM 8.3–RM 14.7 only), and common carp	**1.0– 2.8**	• Limited toxicity dataset for TRV derivation • TRV-B derived using extrapolation factors from 96-hour study
Total DDx	HQs ≥ 1.0 for common carp only (> RM 8.3 and RM 8.3–RM 14.7 only)	**1.2–1.3**	HQs ≥ 1.0 for common carp (> RM 8.3 and RM 8.3–RM 14.7 only) and white catfish	**1.0–1.7**	• TRV-A based on SSD less than lowest measured LOAEL evaluated • TRV-B based on SSD within range of measured LOAELs evaluated (including TRVs based on field-collected organisms)

Bold identifies HQs ≥ 1.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] Only COPECs with HQs ≥ 1.0 based on a LOAEL TRV are included in the table.

[c] TRVs were derived from the primary literature review based on process identified in the main text of the BERA.

[d] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007).

[e] HQs in parenthesis were based on additional alternative SSD-derived LOAEL evaluated.

BERA – baseline ecological risk assessment
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
EPC – exposure point concentration
FFS – focused feasibility study
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
nc – not calculated
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PCB – polychlorinated biphenyl
PCDD– polychlorinated dibenzo-*p*-dioxin
SSD – species sensitivity distribution
TCDD – tetrachlorodibenzo-*p*-dioxin
TEQ – toxic equivalents
TRV – toxicity reference value
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
PCDF –polychlorinated dibenzofuran
RM – river mile
UCL – upper confidence limit (on the mean)
USEPA – US Environmental Protection Agency

Table 3-8. Summary of fish tissue LOAEL EFs for regulated metals

COPEC[b]	Range of LOAEL HQs[a]				Key Uncertainties
	HQ Based on TRV-A[c]		HQ Based on TRV-B[d]		
	Fish Species with EFs ≥ 1.0	LOAEL EFs Values ≥ 1.0	Fish Species with EFs ≥ 1.0	LOAEL EF Values ≥ 1.0	
Cadmium	EFs ≥ 1.0 for American eel only (RM 8.3–RM 14.7 and RM 14.7–RM 17.4 only)	**1.1–1.2**	nc	nc	• Tissue-residue approach not recommended for regulated metals[e] • TRV-A derived using SSD within range of measured LOAELs evaluated
Copper	Nc	nc	EFs ≥ 1.0 for mummichog (> RM 8 and RM 8.3–RM 14.7 only), other forage fish, white perch, common carp (RM 14.7–RM 17.4 only), channel catfish (RM 14.7–RM 17.4 only), and American eel	**1.0–8.0**	• Tissue-residue approach not recommended for regulated metals[e] • TRV-B less than range of nutritionally optimal threshold concentrations

Bold identifies HQs ≥ 1.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] Only regulated metals with EFs ≥ 1.0 based on a LOAEL TRV are included in the table.

[c] TRVs were derived from the primary literature review based on process identified in the main text of the BERA.

[d] TRVs based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007).

[e] USEPA framework for metals risk assessment (USEPA 2007e) recommends against the use of a tissue residue approach, stating that the CBR approach for metals "does not appear to be a robust indicator of toxic dose.

BERA – baseline ecological risk assessment
CBR – critical body residue
COPEC – chemical of potential ecological concern
EF – exceedance factor
FFS – focused feasibility study
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
nc – not calculated
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
RM – river mile
SSD – species sensitivity distribution
TRV – toxicity reference value
USEPA – US Environmental Protection Agency

3.2 DIETARY ASSESSMENT

For the dietary evaluation, species-specific doses were derived for comparison to dietary TRVs for fish. Table 3-9 presents the COPECs identified for fish based on the dietary LOE.

Table 3-9. Fish dietary COPECs

COPEC	
Metals	
Cadmium	Nickel
Chromium	Selenium
Cobalt	Vanadium
Copper	Zinc
Methylmercury/mercury	
Butyltins	
TBT	
PAHs	
Benzo(a)pyrene	Total PAHs
PCBs	
Total PCBs	PCB TEQ - fish
PCDD/PCDFs	
PCDD/PCDF TEQ - fish	Total TEQ - fish
Organochlorine Pesticides	
Total DDx	

COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
TEQ – toxic equivalency
TBT – tributyltin
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

3.2.1 Exposure

Dietary doses for fish were estimated based on ingestion of biota (i.e., prey) and incidental ingestion of sediment. Dietary doses were estimated as milligrams of each COPEC ingested per kilogram of body weight per day (mg/kg bw/day) using the following equation:

$$\text{Dose} = \frac{\left[\left(\text{FIR} \times \text{EPC}_{\text{prey}}\right) + \left(\text{SIR} \times \text{EPC}_{\text{sed}}\right)\right]}{\text{BW}} \times \text{SUF} \qquad \textbf{Equation 3-1}$$

Where:

Dose = daily ingested dose (mg/kg bw/day)
FIR = food ingestion rate (kg ww/day)

EPC_{prey} = exposure point concentration in prey tissue (mg/kg ww)
SIR = incidental sediment ingestion rate (kg dw/day)
EPC_{sed} = exposure point concentration in sediment (mg/kg dw)
BW = body weight (kg)
SUF = site use factor (unitless)

The body weights and ingestion rates were obtained from the literature for each species and are presented in Table 3-10. These parameters are described in detail in the main text of the BERA. A conservative site use factor (SUF) of 1.0 was assumed for all fish species within each of the three exposure areas evaluated.

Table 3-10. Exposure parameter values for fish species

Species	BW (kg)[a]	Food Ingestion		Incidental Sediment Ingestion	
		FIR (kg ww/day)	Source	SI (%)[b]	SIR (kg dw/day)[c]
Mummichog/ other forage fish	0.0032	0.00019	Weisberg and Lotrich (1982)[d]	10%	0.0000037
Common carp	2.7	0.11	Arnot and Gobas (2004)[f]	15%	0.0033
White sucker	0.79	0.039	Arnot and Gobas (2004)[f]	10%	0.00077
White perch	0.057[e]	0.0041	Arnot and Gobas (2004)[f]	5%	0.000041
Channel catfish	0.74	0.036	Arnot and Gobas (2004)[f]	10%	0.00073
White catfish	0.75	0.037	Arnot and Gobas (2004)[f]	10%	0.00074
American eel < 50 cm	0.032	0.0025	Arnot and Gobas (2004)[f]	5%	0.000025
American eel ≥ 50 cm	0.45	0.024	Arnot and Gobas (2004)[f]	5%	0.00024
Largemouth bass	0.078	0.0054	Arnot and Gobas (2004)[f]	1%	0.000011
Smallmouth bass	0.14	0.0089	Arnot and Gobas (2004)[f]	1%	0.000018
Northern pike	2.8	0.11	Arnot and Gobas (2004)[f]	1%	0.00023

[a] Body weight for each species was based on average of all body weights for specimens of that species collected during 2009/2010 fish sampling events.
[b] Based on percentage of the dry weight FIR that is incidentally ingested sediment.
[c] Wet weight FIR converted to dry weight FIR assuming 80% moisture in prey (based on average moisture contents of 72, 79, and 88% for fish, invertebrates, and worms, respectively) to determine SIR in kg/day. SIRs are based on feeding habits and best professional judgment because of a lack of available empirical data, except where noted.
[d] FIR is 0.0582 g dw/g dw bw/day; wet weight FIR assumes the same moisture content in mummichog tissue and invertebrate prey (so FIR = 0.0582 g ww/g ww bw/day).
[e] Average body weight excludes small white perch (n = 452) collected during the late summer SFF sampling effort in 2010 (average weight was 0.004 g).
[f] FIR (kg ww/day) is a function of body weight based on the following equation: $FIR = (0.022 \times BW^{0.85}) \times \exp^{(0.06 \times T)}$, where T = 12.7ºC based on monthly average temperatures in the LPRSA between 1998 and 2009 (USEPA 2009) and body weight is in kg.
[g] SIR is based on Wenner and Musick (1975)

BW or bw – body weight
dw – dry weight
FIR – food ingestion rate
LPRSA – Lower Passaic River Study Area
SFF – small forage fish
SI – sediment ingestion
SIR – sediment ingestion rate
USEPA – US Environmental Protection Agency
ww – wet weight

The EPC in prey for each species was calculated from the fraction of the prey type in the species' diet and the chemical exposure concentration in that prey type, as follows:

$$EPC_{prey} = (EPC_1 \times F_1) + (EPC_2 \times F_2) \qquad \textbf{Equation 3-2}$$

Where:

EPC_{prey} = exposure point concentration in prey items (mg COPEC/kg food ww)
$EPC_{1,2}$ = exposure point concentration in each individual prey type (mg COPEC/kg tissue ww)
$F_{1,2}$ = fraction ingested of each individual prey type (kg fish/kg food)

The dietary fraction of each component in each species' diet was based on information from the literature. The dietary fractions assumed for each species and the assumptions used to derive those fractions are described in detail in the main text of the BERA.

For this evaluation, the dietary fractions were evaluated within each of the three exposure areas (i.e., RM 8.3 to RM 17.4, RM 8.3 to RM 14.7, and RM 14.7 to RM 17.4). Table 3-11 presents the species-specific data groups evaluated for the fish dietary LOE.

Table 3-11. Data groups for calculation of prey and sediment EPCs for fish diet

Species	Prey Type		Sediment Type	Exposure Areas
	Prey Type[a,b]	% in Diet		
Mummichog/ other forage fish	worms	100	mudflats only	RM 8.3 to RM 17.4; RM 8.3 to RM 14.7; RM 14.7 to RM 17.4
Common carp	worms	82	all surface sediment	RM 8.3 to RM 17.4; RM 8.3 to RM 14.7; RM 14.7 to RM 17.4
	blue crab	17		
	fish 0–11 cm[c]	1		
White sucker	worms	90	all surface sediment	RM 8.3 to RM 17.4; RM 8.3 to RM 14.7; RM 14.7 to RM 17.4
	blue crab	10		
White perch	worms	70	all surface sediment	RM 8.3 to RM 17.4; RM 8.3 to RM 14.7; RM 14.7 to RM 17.4
	blue crab	15		
	fish 0–11 cm[c]	15		
Channel catfish	worms	55	all surface sediment	RM 8.3 to RM 17.4; RM 8.3 to RM 14.7; RM 14.7 to RM 17.4
	blue crab	5		
	fish 0–13 cm[d]	40		
White catfish	worms	55	all surface sediment	RM 8.3 to RM 17.4; RM 8.3 to RM 14.7; RM 14.7 to RM 17.4
	blue crab	5		
	fish 0–13 cm[d]	40		

Table 3-11. Data groups for calculation of prey and sediment EPCs for fish diet

Species	Prey Type		Sediment Type	Exposure Areas
	Prey Type[a,b]	% in Diet		
American eel < 50 cm	worms	80	all surface sediment	RM 8.3 to RM 17.4; RM 8.3 to RM 14.7; RM 14.7 to RM 17.4
	blue crab	10		
	fish 0–13 cm[d]	10		
American eel ≥ 50 cm	worms	35	all surface sediment	RM 8.3 to RM 17.4; RM 8.3 to RM 14.7; RM 14.7 to RM 17.4
	blue crab	25		
	fish 0–20 cm[e]	40		
Largemouth bass	worms	10	all surface sediment	RM 8.3 to RM 17.4; RM 8.3 to RM 14.7; RM 14.7 to RM 17.4
	blue crab	10		
	fish 0–13 cm[d]	80		
Smallmouth bass	worms	10	all surface sediment	RM 8.3 to RM 17.4; RM 8.3 to RM 14.7; RM 14.7 to RM 17.4
	blue crab	10		
	fish 0–13 cm[d]	80		
Northern pike	blue crab	10	all surface sediment	RM 8.3 to RM 17.4; RM 8.3 to RM 14.7; RM 14.7 to RM 17.4
	fish 0–20 cm[e]	90		

Note: If fewer than six samples were available to calculate a UCL, the maximum concentration was used.

[a] As represented by whole-body tissue concentrations.

[b] For composite fish samples, length was based on the maximum length of any fish in the sample.

[c] Fish ≤ 11 cm long included the following species: gizzard shad, mummichog, silver shiner, spottail shiner, and white perch. For composite samples, length was based on the maximum length of any fish in the sample.

[d] Fish ≤ 13 cm long included the following species: gizzard shad, mixed forage fish, mummichog, silver shiner, spottail shiner, and white perch. For composite samples, length was based on the maximum length of any fish in the sample.

[e] Fish ≤ 20 cm long included the following species: gizzard shad, mixed forage fish, mummichog, pumpkinseed, silver shiner, spottail shiner, and white perch. For composite samples, length was based on the maximum length of any fish in the sample.

EPC – exposure point concentration

RM – river mile

UCL – upper confidence limit (on the mean)

EPCs were calculated for each of the two modeled media types (prey and sediment) to calculate dietary doses. UCL concentrations were calculated using USEPA's ProUCL® statistical package (Version 5.0.00) (USEPA 2013). For each dataset with fewer than six samples, a UCL was not calculated; instead, the maximum concentration was used as the EPC. This was also the case for some of the prey tissue groups, particularly in the RM 14.7 to RM 17.4 exposure area (Table 3-12).

Table 3-12. Summary of fish prey tissue and sediment sample group counts by exposure area

Data Group	Number of Composite Samples		
	RM 8.3 to RM 17.4[a]	RM 8.3 to RM 14.7[b]	RM 14.7 to RM 17.4[c]
Prey tissue type			
Worms	n = 11	n = 10	n = 1[d]
Blue crab	n = 2	n = 2	no data[e]
Fish ≤ 11 cm	n = 8	n = 6	n = 2
Fish ≤ 13 cm	n = 10	n = 7	n = 3
Fish ≤ 20 cm	n = 18	n = 12	n = 6
Sediment sample group			
All surface sediment samples	n = 522	n = 485	n = 37
Mudflat-only sediment samples	n = 128	n = 111	n = 17

Shaded rows indicate where UCLs could be derived. In all other cases, maximum concentrations were used to represent the EPC because insufficient data were available to derive a UCL.

[a] Includes blue crab and fish tissue samples collected from Reach 5 (RM 8 to RM 10), Reach 6 (RM 10 to RM 12), Reach 7 (RM 12 to RM 14), and Reach 8 (RM 14 to RM 17.4).

[b] Includes blue crab and fish tissue samples collected from Reach 5 (RM 8 to RM 10), Reach 6 (RM 10 to RM 12), and Reach 7 (RM 12 to RM 14).

[c] Includes blue crab and fish tissue samples collected from Reach 8 (RM 14 to RM 17.4).

[d] Worms collected between RM 14 and RM 17.4 were not analyzed for metals (other than mercury) or PAHs. For metals (other than mercury), worms collected from RM 8.3 to RM 14.7 were used in the dietary evaluation for sandpiper collected in the exposure area between RM 14.7 and RM 17.4.

[e] No tissue data for blue crab were available between RM 14 and RM 17.4; therefore, blue crab collected from the RM 8.3 to RM 14.7 exposure area were used in the dietary evaluation for fish collected in the exposure area between RM 14.7 and RM 17.4.

EPC – exposure point concentration
PAH – polycyclic aromatic hydrocarbon
RM – river mile
UCL – upper confidence limit (on the mean)

Dietary doses calculated based on Equations 3-1 and 3-2 are presented in Tables 3-13a, 3-13b, and 3-13c.

Table 3-13a. Dietary doses for fish in RM 8.3 to RM 17.4

COPEC	Units	Dietary Dose										
		Benthic Omnivore		Invertivore				Piscivore				
		Mummichog/ Other Forage Fish	Common Carp	White Perch	Channel Catfish	White Sucker	White Catfish	American Eel - Small (< 50 cm)	American Eel - Large (≥ 50 cm)	Largemouth Bass	Smallmouth Bass	Northern Pike
Metals												
Cadmium	mg/kg bw/day	0.013	0.012	0.012	0.0099	0.012	0.0099	0.014	0.0077	0.0050	0.0046	0.0023
Chromium	mg/kg bw/day	2.4	1.5	2.2	1.6	1.9	1.6	2.7	1.7	1.3	1.2	1.6
Cobalt	mg/kg bw/day	0.085	0.052	0.074	0.047	0.065	0.048	0.089	0.036	0.027	0.025	0.013
Copper	mg/kg bw/day	0.57	0.63	0.81	0.50	0.60	0.48	0.81	0.73	0.47	0.42	0.34
Mercury	µg/kg bw/day	5.6	4.8	4.8	4.6	4.3	5.0	4.9	5.1	3.9	3.5	3.9
Methylmercury	µg/kg bw/day	0.092	0.53	1.1	0.73	0.4	0.74	0.83	3.5	2.0	1.8	4.5
Nickel	mg/kg bw/day	1.4	0.81	1.3	0.9	1.1	0.91	1.5	1.1	0.88	0.81	1.1
Selenium	mg/kg bw/day	0.039	0.027	0.046	0.034	0.032	0.033	0.051	0.035	0.045	0.042	0.029
Vanadium	mg/kg bw/day	0.072	0.058	0.068	0.064	0.059	0.065	0.075	0.044	0.062	0.057	0.027
Zinc	mg/kg bw/day	2.9	2.2	3.2	2.4	2.4	2.4	3.4	2.2	2.8	2.6	1.4
Butyltin												
TBT	µg/kg bw/day	0.11	0.082	0.12	0.11	0.089	0.11	0.13	0.12	0.15	0.14	0.12
PAHs												
Benzo(a)pyrene	µg/kg bw/day	14	11	12	9.6	11	9.6	13	6.1	4.1	3.7	1.5
Total PAHs	µg/kg bw/day	170	140	150	120	140	120	170	79	59	54	24
PCBs												

Table 3-13a. Dietary doses for fish in RM 8.3 to RM 17.4

COPEC	Units	Dietary Dose										
		Benthic Omnivore		Invertivore				Piscivore				
		Mummichog/ Other Forage Fish	Common Carp	White Perch	Channel Catfish	White Sucker	White Catfish	American Eel - Small (< 50 cm)	American Eel - Large (≥ 50 cm)	Largemouth Bass	Smallmouth Bass	Northern Pike
Total PCBs	µg/kg bw/day	21	15	24	21	16	21	25	44	34	31	58
PCB TEQ - fish	ng/kg bw/day	0.020	0.016	0.028	0.023	0.017	0.023	0.027	0.042	0.040	0.037	0.049
PCDD/PCDFs												
PCDD/PCDF TEQ - fish	ng/kg bw/day	4.7	4.8	5.0	4.7	4.5	4.7	5.3	5.0	3.8	3.5	4.0
Total TEQ - fish	ng/kg bw/day	4.7	4.8	5.0	4.7	4.5	4.7	5.3	5.0	3.9	3.6	4.0
Organochlorine Pesticides												
Total DDx	µg/kg bw/day	1.3	1.2	2.4	2.0	1.3	2.0	2.2	3.9	4.1	3.7	4.8

bw – body weight
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile
TBT – tributyltin
TEQ – toxic equivalency
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

Table 3-13b. Dietary doses for fish in RM 8.3 to RM 14.7

COPEC	Units	Dietary Dose										
		Benthic Omnivore		Invertivore				Piscivore				
		Mummichog/ Other Forage Fish	Common Carp	White Perch	Channel Catfish	White Sucker	White Catfish	American Eel - Small (< 50 cm)	American Eel - Large (≥ 50 cm)	Largemouth Bass	Smallmouth Bass	Northern Pike
Metals												
Cadmium	mg/kg bw/day	0.015	0.012	0.013	0.010	0.012	0.010	0.014	0.0080	0.0054	0.0049	0.0024
Chromium	mg/kg bw/day	2.4	1.5	2.2	1.5	1.9	1.5	2.6	2.1	1.2	1.1	2.2
Cobalt	mg/kg bw/day	0.086	0.052	0.074	0.047	0.065	0.048	0.089	0.038	0.025	0.023	0.017
Copper	mg/kg bw/day	0.59	0.61	0.81	0.48	0.59	0.48	0.80	0.75	0.48	0.44	0.37
Mercury	µg/kg bw/day	7.1	5.1	5.0	4.8	4.5	4.9	5.1	5.5	4.0	3.7	4.5
Methylmercury	µg/kg bw/day	0.089	0.53	1.1	0.73	0.4	0.74	0.83	3.7	2.0	1.8	4.9
Nickel	mg/kg bw/day	1.4	0.82	1.3	0.84	1.1	0.85	1.5	1.4	0.72	0.66	1.5
Selenium	mg/kg bw/day	0.040	0.027	0.047	0.033	0.032	0.033	0.051	0.038	0.047	0.043	0.032
Vanadium	mg/kg bw/day	0.076	0.056	0.067	0.062	0.057	0.063	0.074	0.045	0.061	0.056	0.030
Zinc	mg/kg bw/day	2.9	2.2	3.2	2.4	2.4	2.4	3.4	2.2	2.7	2.5	1.4
Butyltin												
TBT	µg/kg bw/day	0.12	0.086	0.13	0.13	0.092	0.13	0.14	0.13	0.19	0.17	0.14
PAHs												
Benzo(a)pyrene	µg/kg bw/day	13	11	12	9.8	12	9.8	14	6.3	4.2	3.9	1.8
Total PAHs	µg/kg bw/day	160	140	150	130	150	130	170	82	56	52	25
PCBs												

Table 3-13b. Dietary doses for fish in RM 8.3 to RM 14.7

COPEC	Units	Dietary Dose										
		Benthic Omnivore		Invertivore				Piscivore				
		Mummichog/ Other Forage Fish	Common Carp	White Perch	Channel Catfish	White Sucker	White Catfish	American Eel - Small (< 50 cm)	American Eel - Large (≥ 50 cm)	Largemouth Bass	Smallmouth Bass	Northern Pike
Total PCBs	µg/kg bw/day	22	15	26	23	17	23	27	77	37	34	110
PCB TEQ - fish	ng/kg bw/day	0.019	0.016	0.028	0.023	0.016	0.023	0.027	0.057	0.041	0.038	0.073
PCDD/PCDFs												
PCDD/PCDF TEQ - fish	ng/kg bw/day	5.2	4.6	5.0	4.8	4.3	4.8	5.3	5.9	4.7	4.3	5.7
Total TEQ - fish	ng/kg bw/day	5.2	4.4	4.9	4.7	4.2	4.7	5.2	5.9	4.6	4.3	5.7
Organochlorine Pesticides												
Total DDx	µg/kg bw/day	1.4	1.3	2.5	2.2	1.3	2.3	2.4	5.5	4.5	4.1	7.3

bw – body weight
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile
TBT – tributyltin
TEQ – toxic equivalency
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

Table 3-13c. Dietary doses for fish in RM 14.7 to RM 17.4

COPEC	Units	Dietary Dose										
		Benthic Omnivore		Invertivore				Piscivore				
		Mummichog/ Other Forage Fish	Common Carp	White Perch	Channel Catfish	White Sucker	White Catfish	American Eel - Small (< 50 cm)	American Eel - Large (≥ 50 cm)	Largemouth Bass	Smallmouth Bass	Northern Pike
Metals												
Cadmium	mg/kg bw/day	0.0098	0.0069	0.0095	0.0058	0.0079	0.0059	0.011	0.0055	0.0040	0.0037	0.0017
Chromium	mg/kg bw/day	2.3	1.3	2.2	1.7	1.7	1.7	2.7	1.2	2.0	1.9	0.78
Cobalt	mg/kg bw/day	0.083	0.049	0.073	0.047	0.062	0.048	0.088	0.034	0.033	0.031	0.012
Copper	mg/kg bw/day	0.50	0.50	0.73	0.38	0.50	0.38	0.72	0.67	0.46	0.42	0.33
Mercury	µg/kg bw/day	4.1	3.1	3.2	3.1	2.6	3.2	3.1	4.3	3.6	3.3	3.9
Methylmercury	µg/kg bw/day	0.060	0.52	1.1	0.76	0.38	0.77	0.82	3.3	2.1	1.9	4.2
Nickel	mg/kg bw/day	1.4	0.8	1.3	1.1	1.0	1.1	1.6	0.77	1.4	1.3	0.53
Selenium	mg/kg bw/day	0.039	0.026	0.047	0.034	0.032	0.034	0.051	0.034	0.050	0.046	0.027
Vanadium	mg/kg bw/day	0.061	0.042	0.06	0.055	0.047	0.055	0.066	0.046	0.069	0.063	0.040
Zinc	mg/kg bw/day	3.1	2.0	3.1	2.4	2.2	2.4	3.4	2.2	3.2	3.0	1.6
Butyltin												
TBT	µg/kg bw/day	0.090	0.052	0.084	0.054	0.066	0.055	0.098	0.12	0.053	0.048	0.15
PAHs												
Benzo(a)pyrene	µg/kg bw/day	16	11	12	10	11	10	14	6.7	5.2	4.8	2.6
Total PAHs	µg/kg bw/day	180	120	140	120	130	120	160	7.5	81	74	28
PCBs												

Table 3-13c. Dietary doses for fish in RM 14.7 to RM 17.4

COPEC	Units	Dietary Dose										
		Benthic Omnivore		Invertivore				Piscivore				
		Mummichog/ Other Forage Fish	Common Carp	White Perch	Channel Catfish	White Sucker	White Catfish	American Eel - Small (< 50 cm)	American Eel - Large (≥ 50 cm)	Largemouth Bass	Smallmouth Bass	Northern Pike
Total PCBs	µg/kg bw/day	5.7	5.5	12	13	5.2	13	11	25	29	27	33
PCB TEQ - fish	ng/kg bw/day	0.0073	0.0089	0.019	0.017	0.008	0.018	0.016	0.034	0.041	0.037	0.042
PCDD/PCDFs												
PCDD/PCDF TEQ - fish	ng/kg bw/day	0.065	0.44	0.86	0.52	0.33	0.53	0.65	1.7	1.4	1.3	1.7
Total TEQ - fish	ng/kg bw/day	0.068	0.44	0.87	0.54	0.33	0.55	0.66	1.7	1.5	1.3	1.7
Organochlorine Pesticides												
Total DDx	µg/kg bw/day	0.35	0.66	1.5	1.4	0.57	1.4	1.3	2.9	3.5	3.2	3.6

bw – body weight
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile
TBT – tributyltin
TEQ – toxic equivalency
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

3.2.2 Effects

As described in the BERA, fish dietary TRVs were derived based on a review of the general toxicological literature. Both NOAEL and LOAEL TRVs were derived. Table 3-14 presents the fish dietary TRVs for the COPECs. Details and uncertainty associated with selected fish dietary TRVs are provided in the main text of the BERA.

Table 3-14. Fish dietary TRVs

COPEC	Units (ww)	TRV (mg/kg bw/day)		Endpoint	Source
		NOAEL	LOAEL		
Metals					
Cadmium	mg/kg bw/day	0.001[a]	0.010	growth (rockfish)	Kim et al. (2004); Kang et al. (2005)
Chromium	mg/kg bw/day	0.19	na	growth (grey mullet)	Walsh et al. (1994)
Cobalt	mg/kg bw/day	0.14	1.4	growth (white carp)	Javed (2013)
Copper	mg/kg bw/day	1.0[a]	2.0	growth (rockfish)	Kang et al. (2005)
Methylmercury/ mercury	µg/kg bw/day	0.56[a]	5.6	growth, reproduction, mortality, and behavior (10 species)	SSD-derived 5th percentile value
Nickel	mg/kg bw/day	0.14[a]	1.4	growth (Indian carp)	Javed (2013)
Selenium	mg/kg bw/day	0.011[a]	0.11	growth, reproduction, and mortality (7 species) (LOAEL)	Knight et al. (2016) (NOAEL); SSD-derived 5th percentile value (LOAEL)
Vanadium	mg/kg bw/day	0.019[a]	0.19	growth (rainbow trout)	Hilton and Bettger (1988)
Zinc	mg/kg bw/day	19	38	growth (rainbow trout)	Takeda and Shimma (1977)
Butyltins					
TBT	µg/kg bw/day	1.2[a]	12	growth (zebrafish)	Lima et al. (2015)
PAHs					
Benzo(a)pyrene	µg/kg bw/day	30	40	growth (rockfish)	Kim et al. (2008)
Total PAHs	µg/kg bw/day	6,200	18,000	growth (Chinook salmon)	Meador et al. (2006)
PCBs					
Total PCBs	µg/kg bw/day	5.0	50	reproduction (barbel)	Hugla and Thome (1999)
PCB TEQ - fish	ng/kg bw/day	0.0027[a]	0.027	mortality (rainbow trout)	Jones et al. (2001)
PCDDs/PCDFs					

COPEC	Units (ww)	TRV (mg/kg bw/day)		Endpoint	Source
		NOAEL	LOAEL		
PCDD/PCDF TEQ - fish	ng/kg bw/day	0.0027[a]	0.027	mortality (rainbow trout)	Jones et al. (2001)
Total TEQ - fish	ng/kg bw/day	0.0027[a]	0.027	mortality (rainbow trout)	Jones et al. (2001)
Organochlorine pesticides					
Total DDx	µg/kg bw/day	14.3[a]	143	reproduction (brook trout)	Macek (1968)

[a] NOAEL extrapolated from LOAEL by a factor of 10.

bw – body weight
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
LOAEL – lowest-observed-adverse-effect level
na – not applicable; no data were available
NOAEL – no-observed-adverse-effect level
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-p-dioxin
PCDF – polychlorinated dibenzofuran
SSD – species sensitivity distribution
TBT – tributyltin
TEQ – toxic equivalent
TRV – toxicity reference value
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
ww – wet weight

3.2.3 HQ Results

Dietary HQs were calculated using the calculated doses presented in Table 3-13a and TRVs identified in Table 3-14. Fish dietary HQs for the COPECs in the three exposure areas (RM 8.3 to RM 17.4, RM 8.3 to RM 14.7, and RM 14.7 to RM 17.4) are presented in Tables 3-15a through 3-17b. LOAEL HQs were ≥ 1.0 for six COPECs and at least one species: cadmium, mercury, nickel, PCB TEQ-fish, PCDD/PCDF TEQ-fish, and total TEQ-fish.

Table 3-15a. Fish dietary LOAEL HQs in RM 8.3 to RM 17.4

COPEC	LOAEL HQs										
	Benthic Omnivores		Invertivore				Piscivore				
	Mummichog	Common Carp	White Perch	Channel Catfish	White Sucker	White Catfish	American Eel - Small (< 50 cm)	American Eel - Large (≥ 50 cm)	Largemouth Bass	Smallmouth Bass	Northern Pike
Metals											
Cadmium	**1.3**	**1.2**	**1.2**	0.98	**1.2**	0.99	**1.4**	0.77	0.50	0.46	0.23
Chromium	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
Cobalt	0.061	0.037	0.053	0.034	0.046	0.034	0.064	0.026	0.019	0.018	0.0094
Copper	0.28	0.31	0.41	0.24	0.30	0.24	0.40	0.36	0.23	0.21	0.17
Mercury	**1.0**	0.86	0.85	0.82	0.77	0.82	0.87	0.91	0.69	0.63	0.70
Methylmercury	0.016	0.095	0.19	0.13	0.072	0.13	0.15	0.62	0.35	0.32	0.81
Nickel	**1.0**	0.58	0.93	0.64	0.75	0.65	**1.1**	0.81	0.63	0.58	0.81
Selenium	0.36	0.24	0.42	0.29	0.29	0.30	0.46	0.32	0.41	0.38	0.26
Vanadium	0.38	0.31	0.36	0.34	0.31	0.34	0.40	0.23	0.32	0.30	0.14
Zinc	0.076	0.057	0.083	0.063	0.063	0.064	0.090	0.058	0.073	0.067	0.037
Butyltins											
TBT	0.0093	0.0069	0.0099	0.0092	0.0075	0.0093	0.011	0.0098	0.012	0.011	0.010
PAHs											
Benzo(a)pyrene	0.35	0.27	0.29	0.24	0.28	0.24	0.34	0.15	0.10	0.093	0.038
Total PAHs	0.0094	0.0076	0.0082	0.0068	0.0080	0.0069	0.0095	0.0044	0.0033	0.0030	0.0013
PCBs											
Total PCBs	0.42	0.29	0.49	0.42	0.32	0.43	0.51	0.89	0.68	0.63	**1.2**
PCB TEQ - fish	0.72	0.61	**1.0**	0.85	0.62	0.86	**1.0**	**1.6**	**1.5**	**1.4**	**1.8**
PCDDs/PCDFs											
PCDD/PCDF TEQ - fish	**170**	**180**	**190**	**170**	**170**	**170**	**200**	**180**	**140**	**130**	**150**

Table 3-15a. Fish dietary LOAEL HQs in RM 8.3 to RM 17.4

COPEC	LOAEL HQs										
	Benthic Omnivores		Invertivore				Piscivore				
	Mummichog	Common Carp	White Perch	Channel Catfish	White Sucker	White Catfish	American Eel - Small (< 50 cm)	American Eel - Large (≥ 50 cm)	Largemouth Bass	Smallmouth Bass	Northern Pike
Total TEQ - fish	**170**	**180**	**190**	**170**	**170**	**170**	**200**	**180**	**140**	**130**	**150**
Organochlorine pesticides											
Total DDx	0.0091	0.0086	0.016	0.014	0.0089	0.014	0.016	0.028	0.028	0.026	0.034

Bold identifies HQs ≥ 1.0.

Shaded cells identify HQs ≥ 1.0 based on a LOAEL TRV.

[a] HQs were based on dietary doses presented in Table 3-12a and TRVs derived from the primary literature review presented in Table 3-13.

COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
nc – not calculated
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile
TBT – tributyltin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value

Table 3-15b. Fish dietary NOAEL HQs in RM 8.3 to RM 17.4

COPEC	NOAEL HQs										
	Benthic Omnivores		Invertivore				Piscivore				
	Mummichog	Common Carp	White Perch	Channel Catfish	White Sucker	White Catfish	American Eel - Small (< 50 cm)	American Eel - Large (≥ 50 cm)	Largemouth Bass	Smallmouth Bass	Northern Pike
Metals											
Cadmium	**13**	**12**	**12**	**9.8**	**12**	**9.9**	**14**	**7.7**	**5.0**	**4.6**	**2.3**
Chromium	**13**	**7.8**	**12**	**8.2**	**9.8**	**8.3**	**14**	**9.3**	**7.1**	**6.5**	**8.5**
Cobalt	0.61	0.37	0.53	0.34	0.46	0.34	0.64	0.26	0.19	0.18	0.094
Copper	0.57	0.63	0.81	0.48	0.60	0.48	0.81	0.73	0.47	0.43	0.34
Mercury	**10**	**8.6**	**8.5**	**8.2**	**7.7**	**8.2**	**8.7**	**9.1**	**6.9**	**6.3**	**7.0**
Methylmercury	0.16	0.95	**1.9**	**1.3**	0.72	**1.3**	**1.5**	**6.2**	**3.5**	**3.2**	**8.1**
Nickel	**10**	**5.8**	**9.3**	**6.4**	**7.5**	**6.5**	**11**	**8.1**	**6.3**	**5.8**	**8.1**
Selenium	**3.6**	**2.4**	**4.2**	**2.9**	**2.9**	**3.0**	**4.6**	**3.2**	**4.1**	**3.8**	**2.6**
Vanadium	**3.8**	**3.1**	**3.6**	**3.4**	**3.1**	**3.4**	**4.0**	**2.3**	**3.2**	**3.0**	**1.4**
Zinc	0.15	0.11	0.17	0.13	0.13	0.13	0.18	0.12	0.15	0.13	0.074
Butyltins											
TBT	0.093	0.069	0.099	0.092	0.075	0.093	0.11	0.098	0.12	0.11	0.10
PAHs											
Benzo(a)pyrene	0.46	0.36	0.38	0.32	0.38	0.32	0.45	0.20	0.14	0.12	0.051
Total PAHs	0.027	0.022	0.024	0.020	0.023	0.020	0.028	0.013	0.0094	0.0087	0.0038
PCBs											
Total PCBs	**4.2**	**2.9**	**4.9**	**4.2**	**3.2**	**4.3**	**5.1**	**8.9**	**6.8**	**6.3**	**12**
PCB TEQ - fish	**7.2**	**6.1**	**10**	**8.5**	**6.2**	**8.6**	**10**	**16**	**15**	**14**	**18**
PCDDs/PCDFs											
PCDD/PCDF TEQ - fish	**1,700**	**1,800**	**1,900**	**1,700**	**1,700**	**1,700**	**2,000**	**1,800**	**1,400**	**1,300**	**1,500**

Table 3-15b. Fish dietary NOAEL HQs in RM 8.3 to RM 17.4

COPEC	NOAEL HQs										
	Benthic Omnivores		Invertivore				Piscivore				
	Mummichog	Common Carp	White Perch	Channel Catfish	White Sucker	White Catfish	American Eel - Small (< 50 cm)	American Eel - Large (≥ 50 cm)	Largemouth Bass	Smallmouth Bass	Northern Pike
Total TEQ - fish	**1,700**	**1,800**	**1,900**	**1,700**	**1,700**	**1,700**	**2,000**	**1,800**	**1,400**	**1,300**	**1,500**
Organochlorine pesticides											
Total DDx	0.091	0.086	0.16	0.14	0.089	0.14	0.16	0.28	0.28	0.26	0.34

Bold identifies HQs ≥ 1.0.

[a] HQs were based on dietary doses presented in Table 3-12a and TRVs derived from the primary literature review presented in Table 3-13.

COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
HQ – hazard quotient
nc – not calculated
NOAEL – no-observed-adverse-effect level
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile
TBT – tributyltin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value

Table 3-16a. Fish dietary LOAEL HQs in RM 8.3 to RM 14.7

COPEC	LOAEL HQs										
	Benthic Omnivores		Invertivore				Piscivore				
	Mummichog	Common Carp	White Perch	Channel Catfish	White Sucker	White Catfish	American Eel - Small (< 50 cm)	American Eel - Large (≥ 50 cm)	Largemouth Bass	Smallmouth Bass	Northern Pike
Metals											
Cadmium	**1.5**	**1.2**	**1.3**	**1.0**	**1.2**	**1.0**	**1.4**	0.8	0.54	0.49	0.24
Chromium	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
Cobalt	0.061	0.037	0.053	0.034	0.046	0.034	0.064	0.027	0.018	0.017	0.012
Copper	0.29	0.31	0.40	0.24	0.30	0.24	0.40	0.37	0.24	0.22	0.19
Mercury	**1.3**	0.91	0.89	0.86	0.81	0.87	0.92	0.99	0.72	0.66	0.80
Methylmercury	0.016	0.095	0.20	0.13	0.072	0.13	0.15	0.66	0.35	0.32	0.87
Nickel	**1.0**	0.58	0.93	0.60	0.75	0.61	**1.1**	0.98	0.52	0.47	**1.1**
Selenium	0.36	0.24	0.42	0.30	0.29	0.3	0.46	0.34	0.43	0.39	0.29
Vanadium	0.40	0.29	0.35	0.33	0.30	0.33	0.39	0.24	0.32	0.29	0.16
Zinc	0.076	0.058	0.083	0.063	0.063	0.064	0.09	0.058	0.072	0.066	0.037
Butyltins											
TBT	0.0097	0.0072	0.011	0.011	0.0077	0.011	0.011	0.011	0.016	0.014	0.012
PAHs											
Benzo(a)pyrene	0.32	0.28	0.29	0.25	0.29	0.25	0.34	0.16	0.11	0.096	0.044
Total PAHs	0.0089	0.0078	0.0082	0.0069	0.0081	0.007	0.0096	0.0045	0.0031	0.0029	0.0014
PCBs											
Total PCBs	0.43	0.30	0.52	0.45	0.34	0.46	0.54	**1.5**	0.74	0.68	**2.2**
PCB TEQ - fish	0.71	0.60	**1.0**	0.86	0.61	0.87	0.99	**2.1**	**1.5**	**1.4**	**2.7**
PCDDs/PCDFs											
PCDD/PCDF TEQ - fish	**190**	**170**	**190**	**180**	**160**	**180**	**190**	**220**	**170**	**160**	**210**

Table 3-16a. Fish dietary LOAEL HQs in RM 8.3 to RM 14.7

COPEC	LOAEL HQs										
	Benthic Omnivores		Invertivore				Piscivore				
	Mummichog	Common Carp	White Perch	Channel Catfish	White Sucker	White Catfish	American Eel - Small (< 50 cm)	American Eel - Large (≥ 50 cm)	Largemouth Bass	Smallmouth Bass	Northern Pike
Total TEQ - fish	**190**	**160**	**180**	**170**	**160**	**170**	**190**	**220**	**170**	**160**	**210**
Organochlorine pesticides											
Total DDx	0.0097	0.0090	0.017	0.016	0.0093	0.016	0.017	0.038	0.031	0.029	0.051

Bold identifies HQs ≥ 1.0.

Shaded cells identify HQs ≥ 1.0 based on a LOAEL TRV.

[a] HQs were based on dietary doses presented in Table 3-12b and TRVs derived from the primary literature review presented in Table 3-13.

COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
nc – not calculated
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile
TBT – tributyltin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value

Table 3-16b. Fish dietary NOAEL HQs in RM 8.3 to RM 14.7

COPEC	NOAEL HQs										
	Benthic Omnivores		Invertivore				Piscivore				
	Mummichog	Common Carp	White Perch	Channel Catfish	White Sucker	White Catfish	American Eel - Small (< 50 cm)	American Eel - Large (≥ 50 cm)	Largemouth Bass	Smallmouth Bass	Northern Pike
Metals											
Cadmium	**15**	**12**	**13**	**10**	**12**	**10**	**14**	**8.0**	**5.4**	**4.9**	**2.4**
Chromium	**13**	**7.9**	**12**	**7.9**	**9.8**	**8.0**	**14**	**11**	**6.2**	**5.7**	**11**
Cobalt	0.61	0.37	0.53	0.34	0.46	0.34	0.64	0.27	0.18	0.17	0.12
Copper	0.59	0.61	0.81	0.48	0.59	0.48	0.80	0.75	0.48	0.44	0.37
Mercury	**13**	**9.1**	**8.9**	**8.6**	**8.1**	**8.7**	**9.2**	**9.9**	**7.2**	**6.6**	**8.0**
Methylmercury	0.16	0.95	**2.0**	**1.3**	0.72	**1.3**	**1.5**	**6.6**	**3.5**	**3.2**	**8.7**
Nickel	**10**	**5.8**	**9.3**	**6.0**	**7.5**	**6.1**	**11**	**9.8**	**5.2**	**4.7**	**11**
Selenium	**3.6**	**2.4**	**4.2**	**3.0**	**2.9**	**3.0**	**4.6**	**3.4**	**4.3**	**3.9**	**2.9**
Vanadium	**4.0**	**2.9**	**3.5**	**3.3**	**3.0**	**3.3**	**3.9**	**2.4**	**3.2**	**2.9**	**1.6**
Zinc	0.15	0.12	0.17	0.13	0.13	0.13	0.18	0.12	0.14	0.13	0.074
Butyltins											
TBT	0.097	0.072	0.11	0.11	0.077	0.11	0.11	0.11	0.16	0.14	0.12
PAHs											
Benzo(a)pyrene	0.43	0.37	0.39	0.33	0.39	0.33	0.46	0.21	0.14	0.13	0.059
Total PAHs	0.026	0.023	0.024	0.02	0.024	0.020	0.028	0.013	0.0091	0.0083	0.0041
PCBs											
Total PCBs	**4.3**	**3.0**	**5.2**	**4.5**	**3.4**	**4.6**	**5.4**	**15**	**7.4**	**6.8**	**22**
PCB TEQ - fish	**7.1**	**6.0**	**10**	**8.6**	**6.1**	**8.7**	**9.9**	**21**	**15**	**14**	**27**
PCDDs/PCDFs											
PCDD/PCDF TEQ - fish	**1,900**	**1,700**	**1,900**	**1,800**	**1,600**	**1,800**	**1,900**	**2,200**	**1,700**	**1,600**	**2,100**

Table 3-16b. Fish dietary NOAEL HQs in RM 8.3 to RM 14.7

COPEC	NOAEL HQs										
	Benthic Omnivores		Invertivore				Piscivore				
	Mummichog	Common Carp	White Perch	Channel Catfish	White Sucker	White Catfish	American Eel - Small (< 50 cm)	American Eel - Large (≥ 50 cm)	Largemouth Bass	Smallmouth Bass	Northern Pike
Total TEQ - fish	**1,900**	**1,600**	**1,800**	**1,700**	**1,600**	**1,700**	**1,900**	**2,200**	**1,700**	**1,600**	**2,100**
Organochlorine pesticides											
Total DDx	0.097	0.090	0.17	0.16	0.093	0.16	0.17	0.38	0.31	0.29	0.51

Bold identifies HQs ≥ 1.0.

[a] HQs were based on dietary doses presented in Table 3-12b and TRVs derived from the primary literature review presented in Table 3-13.

COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
HQ – hazard quotient
nc – not calculated
NOAEL – no-observed-adverse-effect level
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile
TBT – tributyltin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value

Table 3-17a. Fish dietary LOAEL HQs in RM 14.7 to RM 17.4

COPEC	LOAEL HQs										
	Benthic Omnivores		Invertivore				Piscivore				
	Mummichog	Common Carp	White Perch	Channel Catfish	White Sucker	White Catfish	American Eel - Small (< 50 cm)	American Eel - Large (≥ 50 cm)	Largemouth Bass	Smallmouth Bass	Northern Pike
Metals											
Cadmium	0.98	0.69	0.95	0.58	0.79	0.59	**1.1**	0.55	0.40	0.37	0.17
Chromium	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
Cobalt	0.059	0.035	0.052	0.034	0.044	0.034	0.063	0.024	0.024	0.022	0.0085
Copper	0.25	0.25	0.36	0.19	0.25	0.19	0.36	0.34	0.23	0.21	0.16
Mercury	0.73	0.55	0.57	0.56	0.46	0.56	0.55	0.77	0.63	0.58	0.70
Methylmercury	0.011	0.092	0.19	0.14	0.068	0.14	0.15	0.58	0.37	0.34	0.74
Nickel	0.99	0.57	0.96	0.76	0.74	0.77	**1.2**	0.55	0.99	0.91	0.38
Selenium	0.36	0.24	0.43	0.31	0.29	0.31	0.46	0.31	0.46	0.42	0.25
Vanadium	0.32	0.22	0.32	0.29	0.24	0.29	0.35	0.24	0.36	0.33	0.21
Zinc	0.081	0.052	0.082	0.063	0.059	0.064	0.088	0.059	0.085	0.078	0.042
Butyltins											
TBT	0.0075	0.0044	0.0070	0.0045	0.0055	0.0046	0.0081	0.010	0.0044	0.0040	0.013
PAHs											
Benzo(a)pyrene	0.39	0.27	0.29	0.25	0.28	0.25	0.34	0.17	0.13	0.12	0.066
Total PAHs	0.0099	0.0067	0.0078	0.0065	0.0072	0.0066	0.0091	0.0042	0.0045	0.0041	0.0015
PCBs											
Total PCBs	0.11	0.11	0.25	0.25	0.10	0.26	0.22	0.50	0.58	0.54	0.67
PCB TEQ - fish	0.27	0.33	0.70	0.64	0.30	0.65	0.59	**1.3**	**1.5**	**1.4**	**1.5**
PCDDs/PCDFs											
PCDD/PCDF TEQ - fish	**2.4**	**16**	**32**	**19**	**12**	**20**	**24**	**62**	**52**	**48**	**63**

Table 3-17a. Fish dietary LOAEL HQs in RM 14.7 to RM 17.4

COPEC	LOAEL HQs										
	Benthic Omnivores		Invertivore				Piscivore				
	Mummichog	Common Carp	White Perch	Channel Catfish	White Sucker	White Catfish	American Eel - Small (< 50 cm)	American Eel - Large (≥ 50 cm)	Largemouth Bass	Smallmouth Bass	Northern Pike
Total TEQ - fish	**2.5**	**16**	**32**	**20**	**12**	**20**	**24**	**63**	**54**	**49**	**65**
Organochlorine pesticides											
Total DDx	0.0024	0.0046	0.011	0.010	0.004	0.010	0.0087	0.020	0.025	0.023	0.025

Bold identifies HQs ≥ 1.0.

Shaded cells identify HQs ≥ 1.0 based on a LOAEL TRV.

[a] HQs were based on dietary doses presented in Table 3-12c and TRVs derived from the primary literature review presented in Table 3-13.

COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
nc – not calculated
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile
TBT – tributyltin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value

Table 3-17b. Fish dietary NOAEL HQs in RM 14.7 to RM 17.4

COPEC	NOAEL HQs										
	Benthic Omnivores		Invertivore				Piscivore				
	Mummichog	Common Carp	White Perch	Channel Catfish	White Sucker	White Catfish	American Eel - Small (< 50 cm)	American Eel - Large (≥ 50 cm)	Largemouth Bass	Smallmouth Bass	Northern Pike
Metals											
Cadmium	**9.8**	**6.9**	**9.5**	**5.8**	**7.9**	**5.9**	**11**	**5.5**	**4.0**	**3.7**	**1.7**
Chromium	**12**	**6.9**	**11**	**8.8**	**9.1**	**8.9**	**14**	**6.3**	**11**	**9.8**	**4.1**
Cobalt	0.59	0.35	0.52	0.34	0.44	0.34	0.63	0.24	0.24	0.22	0.085
Copper	0.50	0.50	0.73	0.38	0.50	0.38	0.72	0.67	0.46	0.42	0.33
Mercury	**7.3**	**5.5**	**5.7**	**5.6**	**4.6**	**5.6**	**5.5**	**7.7**	**6.3**	**5.8**	**7.0**
Methylmercury	0.11	0.92	**1.9**	**1.4**	0.68	**1.4**	**1.5**	**5.8**	**3.7**	**3.4**	**7.4**
Nickel	**9.9**	**5.7**	**9.6**	**7.6**	**7.4**	**7.7**	**12**	**5.5**	**9.9**	**9.1**	**3.8**
Selenium	**3.6**	**2.4**	**4.3**	**3.1**	**2.9**	**3.1**	**4.6**	**3.1**	**4.6**	**4.2**	**2.5**
Vanadium	**3.2**	**2.2**	**3.2**	**2.9**	**2.4**	**2.9**	**3.5**	**2.4**	**3.6**	**3.3**	**2.1**
Zinc	0.16	0.10	0.16	0.13	0.12	0.13	0.18	0.12	0.17	0.16	0.085
Butyltins											
TBT	0.075	0.044	0.07	0.045	0.055	0.046	0.081	0.10	0.044	0.04	0.13
PAHs											
Benzo(a)pyrene	0.52	0.36	0.39	0.33	0.38	0.34	0.45	0.23	0.17	0.16	0.088
Total PAHs	0.029	0.019	0.023	0.019	0.021	0.019	0.026	0.012	0.013	0.012	0.0045
PCBs											
Total PCBs	**1.1**	**1.1**	**2.5**	**2.5**	**1.0**	**2.6**	**2.2**	**5.0**	**5.8**	**5.4**	**6.7**
PCB TEQ - fish	**2.7**	**3.3**	**7.0**	**6.4**	**3.0**	**6.5**	**5.9**	**13**	**15**	**14**	**15**
PCDDs/PCDFs											
PCDD/PCDF TEQ - fish	**24**	**160**	**320**	**190**	**120**	**200**	**240**	**620**	**520**	**480**	**630**

Table 3-17b. Fish dietary NOAEL HQs in RM 14.7 to RM 17.4

COPEC	NOAEL HQs										
	Benthic Omnivores		Invertivore				Piscivore				
	Mummichog	Common Carp	White Perch	Channel Catfish	White Sucker	White Catfish	American Eel - Small (< 50 cm)	American Eel - Large (≥ 50 cm)	Largemouth Bass	Smallmouth Bass	Northern Pike
Total TEQ - fish	**25**	**160**	**320**	**200**	**120**	**200**	**240**	**630**	**540**	**490**	**650**
Organochlorine pesticides											
Total DDx	0.024	0.046	0.11	0.10	0.04	0.10	0.087	0.20	0.25	0.23	0.25

Bold identifies HQs ≥ 1.0.

[a] HQs were based on dietary doses presented in Table 3-12c and TRVs derived from the primary literature review presented in Table 3-13.

COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
HQ – hazard quotient
nc – not calculated
NOAEL – no-observed-adverse-effect level
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
TBT – tributyltin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value

3.2.4 Key uncertainties

The uncertainties associated with the dietary approach are discussed in the BERA. There is a high uncertainty associated with the dietary approach for metals and fish and the exposure assumptions used; therefore, consistent with USEPA's recommendation for metals (USEPA 2007e), fish dietary metal HQs should not be used for the purposes of risk management conclusions and decisions.

3.2.5 Summary

Twenty dietary COPECs were evaluated for all fish species. A summary of LOAEL HQs ≥ 1.0 for fish diet are summarized in Table 3-18.

Fish diet HQs > 1.0 were the same as those in the 17.4-mile LPRSA BERA, except that nickel LOAEL HQs three fish species (i.e., mummichog, American eel, and northern pike) that were ≥ 1.0 in this upper 9-mile evaluation were < 1.0 for this COPEC and all fish species in the BERA. HQs were similar between the BERA and this upper 9-mile evaluation, except that in the latter, PCDD/PCDF TEQ and total TEQ LOAEL HQs were much lower (one to two orders of magnitude lower) in the upper segment exposure area (RM 14.7 to RM 17.4).

Table 3-18. Summary of fish dietary LOAEL HQs

COPEC[a]	HQ		Key uncertainties
	Fish Species with HQs ≥ 1.0	LOAEL HQ Values ≥ 1.0	
Cadmium	HQs ≥ 1.0 for mummichog (< RM 8.3 and RM 8.3–RM 14.7 only), common carp (< RM 8.3 and RM 8.3–14.7 only), white perch (< RM 8.3 and RM 8.3–RM 14.7 only), channel catfish (RM 8.3– RM 14.7 only), white sucker (< RM 8.3 and RM 8.3– RM 14.7 only), white catfish (RM 8.3– RM 14.7 only), and American eel – small (< 50 cm)	**1.0 – 1.5**	• LOAEL TRV 2 to 3 orders of magnitude less than both NOAELs and LOAELs reported in other toxicological studies
Nickel	HQs ≥ 1.0 for mummichog (> RM 8.3 and RM 8.3–RM 14.7 only), American eel – small (< 50 cm), and northern pike (RM 8.3– RM 14.7 only)	**1.1 – 1.2**	• LOAEL TRV based on lowest LOAEL among 3 toxicological studies
Mercury	HQs ≥ 1.0 for mummichog (RM 8.3–RM 14.7 and RM 8.3–RM 17.4 only)	**1.0 – 1.3**	• TRV based on SSD within range of measured LOAELs evaluated • LOAEL HQs for methylmercury < 1.0 for all species
Total PCBs	HQs ≥ 1.0 for northern pike (RM 8.3–RM 17.4, RM 8.3–14.7 only), American eel – large (RM 8.3–RM 14.7 only)	**1.2 – 2.2**	• LOAEL based on fecundity (number of eggs per female), but no significant reduction of egg weight or hatching rate was reported.
PCB TEQ - fish	HQs ≥ 1.0 for white perch (> RM 8.3 and RM 8.3–RM 4.7 only), American eel – small (< 50 cm) (RM 8.3– RM 17.4 only), American eel – large (≥ 50 cm), largemouth bass, smallmouth bass, northern pike	**1.0 – 2.7**	• LOAEL TRV 2 orders of magnitude less than LOAELs reported for 2 other species

COPEC[a]	HQ		Key uncertainties
	Fish Species with HQs ≥ 1.0	LOAEL HQ Values ≥ 1.0	
PCDD/PCDF TEQ - fish	HQs ≥ 1.0 for all fish species evaluated	**2.5 – 220**	
Total TEQ - fish	HQs ≥ 1.0 for all fish species evaluated	**2.5 – 220**	

[a] Only COPECs with HQs ≥ 1.0 based on a LOAEL TRV are included in this table.

COPEC – chemical of potential ecological concern
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
NOAEL – no-observed-adverse-effect level
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
SSD – species sensitivity distribution
TEQ – toxic equivalency
TRV – toxicity reference value

3.3 SURFACE WATER ASSESSMENT

COPECs identified in surface water for fish are presented in Table 3-19. These COPECs were valuated by comparing surface water concentrations to water TRVs, consistent with the LPRSA BERA.

Table 3-19. Surface water COPECs evaluated for fish

COPEC	
Metals[a]	
Cadmium	Mercury
Chromium	Selenium
Copper	Silver
Lead	Zinc
Butyltin	
TBT[b]	
PAHs	
Anthracene	Fluoranthene
Benzo(a)anthracene	Pyrene
Benzo(a)pyrene	
SVOCs	
BEHP	BBP
PCBs	
Total PCBs	PCB TEQ - fish[c]
PCDDs/PCDFs	
2,3,7,8-TCDD	PCDD/PCDF TEQ - fish[c]
Total TEQ - fish[c]	
Pesticides	
4,4′-DDE	Hexachlorobenzene
4,4′-DDT	Total chlordane

COPEC	
Dieldrin[b]	Total DDx
Other	
Cyanide	

[a] All metals were identified as COPECs based on the total concentrations.

[b] Identified as a COPEC for the estuarine area only.

[c] TEQs - fish in surface water were only evaluated in addition to 2,3,7,8-TCDD for the assessment of fish and surface water, not for benthic invertebrates or zooplankton.

BBP – butyl benzyl phthalate
BEHP – bis(2-ethylhexyl) phthalate
COPEC – chemical of potential concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
SVOC – semivolatile organic compound
TBT – tributyltin
TCDD – tetrachlorodibenzo-*p*-dioxin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

3.3.1 Exposure

Surface water EPCs for fish were calculated for only one exposure area—between RM 8.3 and RM 14.7—for comparison to both estuarine and freshwater thresholds. No surface water data were available for the exposure area between RM 14.7 and RM 17.4. Both near-bottom (3 ft [0.9 m] above the bottom) and near-surface (3 ft [0.9 m] below the surface) samples collected throughout the LPRSA during various flow events were used in EPC calculations, consistent with the LPRSA BERA.

Surface water EPCs were based on a conservative upper-bound estimate of the mean concentration (i.e., UCL concentration). UCLs were calculated using USEPA's ProUCL® statistical package (Version 5.0.00) (USEPA 2013), as described in the BERA. Table 2-13 summarizes counts of surface water samples in each of the exposure areas evaluated. EPCs in surface water samples are presented in Table 3-20.

Table 3-20. Surface water sample EPCs

COPEC	Units	EPC	
		RM 8.3 to RM 14.7	RM 14.7 to RM 17.3
Metals[a]			
Cadmium	µg/L	0.027 (0.004–0.085)[b]	no data
Chromium	µg/L	1.1	no data
Copper	µg/L	7.81 (1.9–7.78)[c]	no data
Lead	µg/L	8.26 (0.098–7.35)[c]	no data
Mercury	ng/L	60	no data
Selenium	µg/L	0.56	no data
Silver	µg/L	0.11	no data
Zinc	µg/L	8.3 (2.1–12.7)[c]	no data

COPEC	Units	EPC	
		RM 8.3 to RM 14.7	RM 14.7 to RM 17.3
Butyltins			
TBT	µg/L	0.05[d]	no data
PAHs			
Anthracene	ng/L	23.4	no data
Benzo(a)anthracene	ng/L	51.9	no data
Benzo(a)pyrene	ng/L	82.8	no data
Fluoranthene	ng/L	143	no data
Pyrene	ng/L	147	no data
SVOCs			
BEHP	µg/L	2.1	no data
BBP	µg/L	0.38	no data
PCBs			
Total PCBs	ng/L	22.4	no data
PCB TEQ-Fish	ng/L	0.0000299	no data
PCDD/PCDF			
2,3,7,8-TCDD	ng/L	0.0144	no data
PCDD/PCDF TEQ – fish	ng/L	0.0158	no data
Total TEQ – fish	ng/L	0.0158	no data
Organochlorine pesticides			
4,4'-DDE	ng/L	2.1	no data
4,4'-DDT	ng/L	0.57	no data
Dieldrin	ng/L	1.6	no data
Hexachlorobenzene	ng/L	0.25	no data
Total Chlordane	ng/L	3.99	no data
Total DDx	ng/L	3.94	no data
Other			
Cyanide	mg/L	0.014[d]	no data

[a] Metals based on dissolved concentrations.

[b] Range represents sample-specific EPCs. Sample-specific EPCs were evaluated with sample-specific, hardness-based TRVs.

[c] Range represents sample-specific EPCs. Sample-specific EPCs were evaluated with sample-specific, BLM-based TRVs.

[d] EPC based on maximum concentration.

BBP – butyl benzyl phthalate
BEHP – bis(2-ethylhexyl) phthalate
BLM – biotic ligand model
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-p-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile
SVOC – semivolatile organic compound

DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
EPC – exposure point concentration
PAH – polycyclic aromatic hydrocarbon
TBT – tributyltin
TCDD – tetrachlorodibenzo-p-dioxin
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

3.3.2 Effects

As described in the BERA, surface water TRVs were determined using aquatic life-based criteria from existing USEPA AWQC, or from the published literature based on the USEPA AWQC derivation approach. If aquatic life-based criteria were not available, then TRVs to predict risk to benthic invertebrates and fish were derived using up-to-date toxicological data relevant to aquatic species. Table 3-21 presents the surface water TRVs for the COPECs. Details on surface water TRVs are provided in the main text of the BERA.

Table 3-21. Surface water TRVs used in the evaluation of fish

COPEC	TRV Type	TRV (µg/L)[a]		TRV Derivation Method
		Acute	Chronic	
Metals[b]				
Cadmium	estuarine	33	7.9	dissolved saltwater CMC and CCC (USEPA 2016a)
	freshwater	1.6–6.5	0.66–2.0	freshwater CMC and CCC (USEPA 2016a); TRV ranges reflect range of mean sample-specific hardness values
Chromium	estuarine	1,100	50	saltwater AWQC for dissolved chromium(VI) USEPA (2017c)
	freshwater	16	11	freshwater CMC and CCC from USEPA (1996), converted to dissolved chromium using USEPA-recommended CF (USEPA 2017c)
Copper	estuarine	16–76[c,d]	10–47[c,d]	freshwater criteria used because salinity in all samples > RM 8.3 was < 3.5 ppth
	freshwater	16–76[c,d]	10–47[c,d]	Sample-specific CMC and CCC (using ACR) based on freshwater BLM from USEPA (2007f)
Lead	estuarine	100	9.7	proposed acute and chronic saltwater criteria (Church et al. 2017) based on acute and chronic SSDs
	freshwater	192–760[c,d]	7.4–35[c,d]	sample-specific CMC and CCC (using ACR) based on freshwater BLM (DeForest et al. 2017)
Mercury	estuarine	1.8	0.94	saltwater CMC and CCC from USEPA (1984) converted to dissolved mercury using USEPA's metals-specific CF (USEPA 2017c)
	freshwater	1.4	0.21	acute TRV is freshwater CMC from USEPA (1996) converted to dissolved mercury using USEPA's metals-specific CF (USEPA 2017c); chronic TRV is lowest LOEC from USEPA (2016c)
Selenium	estuarine	290	71	saltwater AWQC (USEPA 2017c)
	freshwater	na	3.1	chronic TRV is dissolved selenium CCC in lotic waters (USEPA 2016b); no acute TRV selected for selenium
Silver	estuarine	5.54	2.0	5th percentile of saltwater SSD based on acute toxicity data divided by 2; chronic value derived using an ACR of 5.536
	freshwater	1.8	0.69	acute and chronic values based on a proposed freshwater BLM from an unpublished report (HydroQual et al. 2007)

Table 3-21. Surface water TRVs used in the evaluation of fish

COPEC	TRV Type	TRV (µg/L)[a]		TRV Derivation Method
		Acute	Chronic	
Zinc	estuarine	75	19	acute TRV is the 5th percentile of an acute saltwater SSD divided by 2; chronic TRV is the 5th percentile of a chronic saltwater SSD
	freshwater	195–960[c,d]	44.8–160[c,d]	sample-specific CCC and CMC based on freshwater BLM from DeForest and Van Genderen (2012)
Butyltins				
TBT	estuarine	0.42	0.066	USEPA-calculated saltwater FAV divided by 2 and FCV from USEPA (2003a)
PCBs				
Total PCBs	estuarine	4.6	0.16	acute TRV is 5th percentile of saltwater SSD based on acute toxicity data, divided by 2; chronic TRV is lowest chronic LOEC (sheepshead minnow reproduction)[f]
	freshwater	1.2	0.27	acute TRV is 5th percentile of acute SSD based on toxicity data from USEPA (1980d) and USEPA (2016c); chronic TRV derived using an ACR of 8.4
PCDDs/PCDFs				
2,3,7,8-TCDD and TEQs - fish	estuarine	0.025	0.006	acute TRV is lowest sub-chronic LOEC for a saltwater species (*D. rerio*); chronic TRV derived using an ACR of 8.3 from Raimondo et al. (2007)
	freshwater	0.0041	9.8×10^{-4}	acute TRV is lowest acute LC50 for a freshwater species (Japanese medaka); chronic TRV derived using an ACR of 8.3 from Raimondo et al. (2007)
Organochlorine Pesticides				
4,4′-DDE	estuarine	1.25	0.30	acute TRV is lowest acute toxicity value for saltwater invertebrate species (*Nitocra spinipes*) divided by 2; chronic TRV is lowest chronic toxicity value for the same species
	freshwater	2.40	1.40	acute TRV is 5th percentile of freshwater SSD based on acute toxicity data, divided by 2; chronic TRV derived using an ACR of 3.6 for DDT-type chemicals
4,4′-DDT/total DDx	estuarine	0.034	0.019	acute TRV is 5th percentile of acute SSD based on saltwater data from USEPA (1980c) and USEPA (2016c), divided by 2; chronic TRV derived using an ACR for DDT-type chemicals
	freshwater	0.45	0.25	acute TRV is 5th percentile of acute SSD based on freshwater data from USEPA (1980c) and USEPA (2016c), divided by 2; chronic TRV derived using an ACR for DDT-type chemicals
Total chlordane	estuarine	0.045	0.0064	USEPA-calculated saltwater CMC and CCC from USEPA (1980b)
	freshwater	1.2	0.17	USEPA-calculated freshwater CMC and CCC from USEPA (1980b)

Table 3-21. Surface water TRVs used in the evaluation of fish

COPEC	TRV Type	TRV (µg/L)[a]		TRV Derivation Method
		Acute	Chronic	
Dieldrin	estuarine	0.36	0.084	USEPA-calculated saltwater CMC and CCC from USEPA (1980a)
Hexachlorobenzene	saltwater	71	23	lowest acute LC50 for a saltwater species (*Solea solea*) divided by 2; chronic value derived using an ACR
	freshwater	180	57	5th percentile of freshwater SSD based on acute toxicity data; chronic value derived using an ACR
PAHs				
Anthracene	estuarine	34.5	13.5	acute TRV is lowest acute LC50 for a saltwater species (*Mulinia lateralis*) divided by 2; chronic TRV derived using an ACR of 5.09 from DiToro et al. (2000)
	freshwater	0.26	0.10	acute TRV is 5th percentile of freshwater SSD based on acute toxicity data divided by 2; chronic value derived using an ACR of 5.09
Benzo(a)anthracene	estuarine	0.48	0.19	same as freshwater TRVs[e]
	freshwater	0.48	0.19	acute TRV is lowest acute LC50 for a freshwater species (*D. magna*); chronic TRV derived using an ACR of 5.09
Benzo(a)pyrene	estuarine	0.51	0.20	acute TRV is lowest acute LC50 for *D. magna*, divided by 2; chronic TRV derived using an ACR of 5.09
	freshwater	2.03	0.80	acute TRV is 5th percentile of freshwater SSD based on acute toxicity data divided by 2; chronic TRV derived using an ACR of 5.09
Fluoranthene	estuarine	3.02	1.19	acute TRV is 5th percentile of saltwater SSD based on acute toxicity data, divided by 2; chronic TRV derived using an ACR of 5.09
	freshwater	13.2	5.20	acute TRV is 5th percentile of freshwater SSD based on acute toxicity data; chronic TRV derived using an ACR of 5.09
Pyrene	estuarine	0.46	0.18	acute TRV is lowest acute EC50 for a saltwater species (*M. lateralis*) divided by 2; chronic TRV derived using an ACR of 5.09
	freshwater	2.2	0.84	acute TRV is lowest acute EC50 for a freshwater species (*D. magna*); chronic TRV derived using an ACR of 5.09
SVOCs				
BEHP	estuarine	500	100	acute TRV is lowest LC50 divided by 2; chronic TRV derived using an ACR of 6.9 based on DeFoe et al. (1990)

Table 3-21. Surface water TRVs used in the evaluation of fish

COPEC	TRV Type	TRV (µg/L)[a]		TRV Derivation Method
		Acute	Chronic	
	freshwater	24.1	7.0	acute TRV is 5th percentile of freshwater SSD based on acute toxicity data; chronic TRV derived using an ACR of 6.9
BBP	estuarine	245	71	acute TRV is lowest acute LC50 for a saltwater species (*C. aggregata*); chronic TRV derived using an ACR of 6.9
	freshwater	107	30.9	acute TRV is 5th percentile of freshwater SSD based on acute toxicity data; chronic TRV derived using an ACR of 6.9
Other				
Cyanide	estuarine	6.1	1.9	acute TRV is 5th percentile of SSD based on acute toxicity data of 13 invertebrate and 3 fish species; chronic TRV derived using an ACR of 8.6 from Gensemer et al. (2006)
	freshwater	32.3	7.5	Acute TRV is 5th percentile of SSD based on acute toxicity data of 24 invertebrate and 11 fish species; chronic TRV derived using an ACR of 6.5 from Gensemer et al. (2006)

[a] NOAEL TRVs were not developed for surface water; SSD-derived 5th percentile TRVs were based on effects levels from the literature.

[b] TRVs for metals were based on the dissolved chemical form.

[c] For COPECs with BLM-based TRVs, the distinction between freshwater and saltwater was based on 3.5 ppth salinity.

[d] As they are sample specific, the BLM-based TRVs are a range of values (i.e., each individual sample has a corresponding BLM-based TRV); therefore, the BLM-based TRVs vary slightly from those presented in the BERA because only a subset of BERA surface water data were used for this upper 9-mile evaluation (i.e., data above RM 8.3).

[e] The freshwater TRVs for benzo(a)anthracene were selected as surrogate estuarine TRVs due to lack of saltwater toxicity data.

ACR – acute-to-chronic ratio
AWQC – ambient water quality criteria
BBP – butyl benzyl phthalate
BEHP – bis(2-ethylhexyl) phthalate
BERA – baseline ecological risk assessment
BLM – biotic ligand model
CCC – criterion continuous concentration
CF – conversion factor
CMC – criterion maximum concentration
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
EC50 – concentration that causes a non-lethal effect in 50% of an exposed population
FAV – final acute value
FCV – final chronic value
LC50 – concentration that is lethal to 50% of an exposed population
LOEC – lowest-observed-effect concentration
na – not applicable
ne – not evaluated
NOAEL – no-observed-adverse-effect level
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD– polychlorinated dibenzo-*p*-dioxin
PCDF –polychlorinated dibenzofuran
ppth – parts per thousand
RM – river mile
SSD – species sensitivity distribution
SVOC – semivolatile organic compound
TBT – tributyltin
TCDD – tetrachlorodibenzo-*p*-dioxin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value
USEPA – US Environmental Protection Agency

3.3.3 HQ Results

Table 3-22 presents the surface water HQs for the COPECs in the exposure area between RM 8.3 and RM 14.7. These are the same as those evaluated for the exposure area between RM 8.3 and RM 17.4, as no additional surface water data were collected between RM 14.7 and RM 17.4.

Table 3-22. Surface water HQs

COPEC	HQ for RM 8.3 to RM 14.7[a]			
	Estuarine		Freshwater	
	Acute	Chronic	Acute	Chronic
Metals				
Cadmium	0.00082	0.0034	0.0018–0.030[b]	0.0048–0.085[b]
Chromium	0.0010	0.022	0.069	0.10
Copper	0.034–0.42[b]	0.055–0.67[b]	0.034–0.42[b]	0.055–0.67[b]
Lead	0.083	0.85	< 0.001–0.022[b]	0.011–0.43[b]
Mercury	0.033	0.064	0.043	0.29
Selenium	0.0019	0.0079	na	0.18
Silver	0.020	0.055	0.061	0.16
Zinc	0.11	0.44	0.0047–0.043[b]	0.021–0.19[b]
Butyltins				
TBT	0.12	0.76	not a COPEC in freshwater portion	
PAHs				
Anthracene	0.00068	0.0017	0.090	0.23
Benzo(a)anthracene	0.11	0.27	0.11	0.27
Benzo(a)pyrene	0.16	0.41	0.041	0.10
Fluoranthene	0.047	0.12	0.011	0.028
Pyrene	0.32	0.82	0.067	0.18
SVOCs				
BEHP	0.0042	0.021	0.087	0.30
BBP	0.0016	0.0054	0.0036	0.012
PCBs				
Total PCBs	0.0049	0.14	0.019	0.083
PCB TEQ - fish	0.0000012	0.0000050	0.0000073	0.000031
PCDD/PCDFs				
2,3,7,8-TCDD	0.00058	0.0024	0.0035	0.015
PCDD/PCDF TEQ - fish	0.00063	0.0026	0.0039	0.016

COPEC	HQ for RM 8.3 to RM 14.7[a]			
	Estuarine		Freshwater	
	Acute	Chronic	Acute	Chronic
Total TEQ - fish	0.00063	0.0026	0.0039	0.016
Organochlorine pesticides				
4,4'-DDE	0.0017	0.0070	0.00088	0.0015
4,4'-DDT	0.017	0.030	0.0013	0.0023
Dieldrin	0.0044	0.019	not a COPEC in freshwater portion	
Hexachlorobenzene	0.0000035	0.000011	0.0000014	0.0000044
Total Chlordane	0.089	0.62	0.0033	0.023
Total DDx	0.12	0.21	0.0088	0.016
Other				
Cyanide	**2.3**	**7.4**	0.43	**1.9**

Bold identifies HQs ≥ 1.0.

Shaded cells identify HQs ≥1 based on acute or chronic TRVs.

[a] HQs based on EPCs presented in Table 3-19 and TRVs presented in Table 3-20. No surface water data were collected between RM 14.7 and RM 17.4.

[b] HQs based on sample-specific, hardness- or BLM-based TRVs are presented as a range of values (i.e., each individual sample has a corresponding hardness- or BLM-based TRV and HQ).

BBP – butyl benzyl phthalate
BEHP – bis(2-ethylhexyl) phthalate
BLM – biotic ligand model
COPEC – chemical of potential concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
EPC – exposure point concentration
HQ – hazard quotient
na – not applicable
ne – not evaluated
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile
SVOC – semivolatile organic compound
TBT – tributyltin
TCDD – tetrachlorodibenzo-*p*-dioxin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value

3.3.4 Key uncertainties

The uncertainties associated with the surface water risk characterization are discussed in the BERA.

3.3.5 Summary

HQs were < 1.0 for all but one of the surface water COPECs evaluated; cyanide had a range of HQs, some of which were ≥ 1.0.

Surface water COPECs with HQs > 1.0 in this upper 9-mile evaluation were the same as those in the 17.4-mile LPRSA BERA, with the exception of copper HQs, which were < 1.0 in this upper 9-mile evaluation and ≥ 1.0 in the BERA. HQs for cyanide based on the

upper 9-mile evaluation were slightly higher than those for the entire LPRSA presented in the BERA.

3.4 EGG TISSUE ASSESSMENT

The following COPECs were identified based on estimated fish (mummichog) egg tissue concentrations: methylmercury/mercury, total PCBs, PCDD/PCDF TEQ – fish, and total TEQ - fish. These COPECs were evaluated by comparing modeled mummichog egg tissue concentrations to fish egg tissue TRVs.

3.4.1 Exposure

Mummichog tissue data were used to model mummichog egg tissue concentrations using the following equation for organic chemicals:

$$EPC_{egg,lipid} = CF \times EPC_{adult,lipid} \qquad \textbf{Equation 3-3}$$

Where:

$EPC_{egg,lipid}$	=	exposure point concentration in egg tissue (mg/kg-lipid)
CF	=	conversion factor
$EPC_{adult,lipid}$	=	exposure point concentration in adult whole-body tissue (mg/kg-lipid)

Non-lipid-normalized tissue data were used to model methylmercury/mercury concentrations:

$$EPC_{egg,ww} = CF \times EPC_{adult} \qquad \textbf{Equation 3-4}$$

Where:

$EPC_{egg,ww}$	=	exposure point concentration in egg tissue (mg/kg-ww)
CF	=	conversion factor
$EPC_{adult,ww}$	=	exposure point concentration in adult whole-body tissue (mg/kg-ww)

As discussed in the BERA, two sets of conversion factors (CFs) were used, one based on a review of the literature and one based on USEPA recommendations. CFs for the COPECs are presented in Table 3-23 and are discussed in detail in the main text of the BERA.

Table 3-23. Fish egg CFs

COPEC	CF based on Niimi (1983)		CF based on Russell et al. (1999)	
	CF	Basis	CF	Basis
Methylmercury/ mercury	0.101	ww-to-ww	1	ww-to-ww
Total PCBs	0.6213	lipid-to-lipid	1	lipid-to-lipid
TEQ	0.6213	lipid-to-lipid	1	lipid-to-lipid

CF – conversion factor
COPEC – chemical of potential ecological concern
PCB – polychlorinated biphenyl
TEQ - toxic equivalent
ww – wet weight

Mummichog data were very limited in the upper reaches of the LRPSA; only three mummichog composite samples were collected between RM 8.3 and RM 14.7, and no mummichog data were collected above RM 14.7. Therefore, mummichog egg concentrations were estimated only in the exposure area between RM 8.3 and RM 14.7 based on maximum mummichog concentration. The estimated egg tissue concentrations for the COPECs in this exposure are is presented in Table 3-24.

Table 3-24. Modeled LPRSA mummichog egg tissue concentrations

COPEC	EPC_{adult}		Modeled Egg Tissue Concentration					
			CFs Based on Niimi (1983)			CFs Based on Russell et al. (1999)[a]		
	EPC_{adult}[b] (µg/kg-ww)	EPC_{adult}[b] (mg/kg-lipid)	CF	EPC_{egg} (mg/kg-lipid)	EPC_{egg} (µg/kg ww)	CF	EPC_{egg} (mg/kg-lipid)	EPC_{egg} (µg/kg ww)
Metals								
Mercury	50	na	0.101 (ww:ww)	na	5.1[c]	1.0 (ww:ww)	na	50[c]
Methylmercury	31	na	0.101 (ww:ww)	na	3.1[c]	1.0 (ww:ww)	na	31[d]
PCBs								
Total PCBs	710	31	0.6213 (lipid:lipid)	19[e]	636[f]	1.0 (lipid:lipid)	31[g]	1023[f]
PCDD/PCDF								
PCDD/PCDF TEQ - fish	100	0.0043	0.6213 (lipid:lipid)	0.0027[e]	88[f]	1.0 (lipid:lipid)	0.0043[g]	142[f]
Total TEQ - fish	100	0.0043	0.6213 (lipid:lipid)	0.0027[e]	88[f]	1.0 (lipid:lipid)	0.0043[g]	142[g]

[a] CFs included as directed by USEPA (2017b).
[b] Based on maximum mummichog whole-body tissue concentrations from RM 8.3 to RM 14.7.
[c] EPC_{egg} was estimated using Equation 3-4.
[d] $EPC_{egg,ww}$ was assumed equal to $EPC_{adult,ww}$.
[e] EPC_{egg} was estimated using Equation 3-5.
[f] Wet weight egg concentration was estimated from lipid-normalized value based on the UCL for percent lipids in all LPRSA mummichog egg samples (3.3%).
[g] $EPC_{egg,lipid}$ was assumed equal to $EPC_{adult,lipid}$.

CF – conversion factor
COPEC – chemical of potential ecological concern
EPC – exposure point concentration
PCDD– pentachlorodibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile

LPRSA – Lower Passaic River Study Area
na – not applicable
PCB – polychlorinated biphenyl
TEQ – toxic equivalent
UCL – upper confidence limit on the mean
ww – wet weight

3.4.2 Effects

As described in the BERA, two sets of fish egg tissue TRVs were used for the derivation of HQs. The first set of TRVs was based on previous documents developed by USEPA Region 2 for the LPRSA:

- USEPA's LPR restoration project FFS (Louis Berger et al. 2014)
- USEPA's first draft of the LPRSA FFS (Malcolm Pirnie 2007)

The second set of TRVs was derived based on a review of the general toxicological literature. Both NOAEL and LOAEL TRVs were derived. Table 3-25 presents the fish egg tissue TRVs for the COPECs. Details and uncertainty associated with both sets of TRVs selected are provided in the main text of the BERA.

Table 3-25. Fish egg tissue TRVs

Preliminary COC	Units (ww)	Range of TRVs[a]								
		TRV-A[b]				TRV-B[c]				
		NOAEL	LOAEL	Endpoint	Source	NOAEL	LOAEL	Endpoint	Source	Document
Methylmercury/ mercury	mg/kg	0.006[d]	0.060	reproduction (catfish)	Birge et al. (1979)	0.006[d]	0.060	reproduction (catfish)	Birge et al. (1979)	draft FFS (Battelle 2007)
Total PCBs	µg/kg	25.8[d]	258	reproduction (common barbels)	Hugla and Thome (1999)	5.04[d]	50.4	reproduction (common barbels)	Hugla and Thome (1999)	USEPA draft BERA comments (USEPA 2015c)
TEQ	ng/kg	7.2	86	growth, survival, reproduction, and behavior (10 species)	Steevens et al. (2005)	7.2	86	growth, survival, reproduction, and behavior (10 species)	Steevens et al. (2005)	revised FFS (Louis Berger et al. 2014)

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] TRVs were derived from the primary literature based on the process described in the main text of the BERA.

[c] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or USEPA's first draft of the LPR restoration project FFS (Malcolm Pirnie 2007), as described in the main text of the BERA.

[d] NOAEL was extrapolated from LOAEL using an uncertainty factor of 10.

BERA – baseline ecological risk assessment
COC – chemical of concern
FFS – focused feasibility study
LOAEL – lowest-observed-adverse-effect level
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PCB – polychlorinated biphenyl
TEQ – toxic equivalent
TRV – toxicity reference value
USEPA – US Environmental Protection Agency
ww – wet weight

3.4.3 HQ Results

Table 3-26 presents the fish egg tissue HQs for the COPECs in the one exposure area evaluated: RM 8.3 to RM 14.7.

Table 3-26. Fish egg tissue HQs

COPEC	HQ[a]			
	CFs based on Niimi (1983)		CFs based on Russell et al. (1999)	
	HQ based on TRV-A[b]	HQ based on TRV-B[c]	HQ based on TRV-A[b]	HQ based on TRV-B[c]
LOAEL				
Metals				
Mercury	0.084	0.084	0.83	0.83
Methylmercury	0.052	0.052	0.52	0.52
PCBs				
Total PCBs	**2.5**	**13**	**4.0**	**20**
PCDD/PCDF				
PCDD/PCDF TEQ - fish	**1.0**	**1.0**	**1.7**	**1.7**
Total TEQ - fish	**1.0**	**1.0**	**1.7**	**1.7**
NOAEL				
Metals				
Mercury	0.84	0.84	**8.3**	**8.3**
Methylmercury	0.52	0.52	**5.2**	**5.2**
PCBs				
Total PCBs	**25**	**126**	**40**	**203**
PCDD/PCDF				
PCDD/PCDF TEQ - fish	**12**	**12**	**20**	**20**
Total TEQ - fish	**12**	**12**	**20**	**20**

Bold identifies HQs ≥ 1.0.

Shaded cells identify HQs ≥1 based on LOAEL TRVs.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] TRVs were derived from the primary literature based on the process described in the main text of the BERA.

[c] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007).

BERA – baseline ecological risk assessment
CF – conversion factor
COPEC – chemical of potential ecological concern
FFS – focused feasibility study
HQ – hazard quotient
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PCB – polychlorinated biphenyl
PCDD– polychlorinated dibenzo-*p*-dioxin

LOAEL – lowest-observed-adverse-effect level
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
PCDF –pentachlorodibenzofuran
TEQ – toxic equivalent
TRV – toxicity reference value
USEPA – US Environmental Protection Agency

3.4.4 Key uncertainties

The uncertainties associated with the fish egg tissue assessment are discussed in the BERA.

3.4.5 Summary

LOAEL HQs for the fish egg LOE were ≥ 1.0 for three COPECs: total PCBs, PCDD/PCDF TEQ-fish, and total TEQ-fish. A summary of the fish egg tissue LOAEL HQs is presented in Table 3-27.

Fish egg tissue COPECs with LOAEL HQs > 1.0 in this upper 9-mile evaluation were different than those identified for the entire LPRSA in the 17.4-mile LPRSA BERA. LOAEL HQs were ≥ 1.0 for total PCBs, PCDD/PCDF TEQ-fish, and total TEQ-fish in this upper 9-mile evaluation, whereas LOAEL HQs were ≥ 1.0 for methylmercury/mercury and total PCBs for the entire LPRSA. This is due to the fact that the upper 9-mile HQs for mummichog egg tissue were based on maximum concentrations because of limited data from RM 8.3 to RM 17.4 (n = 3 samples).

Table 3-27. Summary of fish egg tissue LOAEL HQs

COPEC[b]	Range of LOAEL HQs[a]		Key Uncertainties
	HQ Based on TRV-A[c]	HQ Based on TRV-B[d]	
	LOAEL EF Values ≥ 1.0		
Total PCBs	**2.5–4.0**	**13–20**	• TRV-A and TRV-B based on same literature source; TRV-A based on observed adverse effect on reproduction (reduced hatchability); TRV-B based on reduced fecundity, but no effect on egg weight or hatchability • Mummichog egg concentration modeled using literature-based CFs and LPRSA mummichog-specific lipid content • EPCs based on maximum concentrations (n = 3 samples above RM 8.3)
PCDD/PCDF TEQ - fish	**1.0–1.7**	**1.0–1.7**	• Mummichog egg concentration modeled using literature-based CFs and LPRSA mummichog-specific lipid content • EPCs based on maximum concentrations (n = 3 samples above RM 8.3)
Total TEQ - fish	**1.0–1.7**	**1.0–1.7**	• Mummichog egg concentration modeled using literature-based CFs and LPRSA mummichog-specific lipid content • EPCs based on maximum concentrations (n = 3 samples above RM 8.3)

Bold identifies HQs ≥ 1.0.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single

TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] Only COPECs with HQs ≥ 1.0 based on a LOAEL TRV are included in this table.

[c] HQs for tissue were based on TRVs derived from the primary literature review.

[d] HQs for tissue were based on TRVs based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007).

BERA – baseline ecological risk assessment
CF – conversion factor
COPEC – chemical of potential ecological concern
EF – exceedance factor
EPC – exposure point concentration
FFS – focused feasibility study
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PCB – polychlorinated biphenyl
PCDD– polychlorinated dibenzo-*p*-dioxin
PCDF –pentachlorodibenzofuran
TEQ – toxic equivalent
TRV – toxicity reference value
USEPA – US Environmental Protection AGency

3.5 SUMMARY OF RESULTS

The potential for risk to a number of fish species representing various feeding guilds (benthic omnivores [mummichog, other forage fish, and common carp], invertivores [white perch, channel catfish, brown bullhead, white catfish, and white sucker], and piscivores [American eel, largemouth bass, Northern pike, and smallmouth bass]) was characterized using LPRSA data for the upper 9 miles in the following LOEs:

- **Tissue LOE –** risks to fish characterized using LPRSA fish tissue concentrations
- **Dietary LOE –** risks to fish characterized using LPRSA tissue and sediment data to estimate dietary doses
- **Surface water LOE –** risks to fish characterized using LPRSA surface water concentrations
- **Fish egg tissue LOE –** risks to mummichog characterized using LPRSA fish tissue concentrations to estimate fish egg concentrations

Tissue, dietary doses, surface water, and modeled fish egg concentrations were compared to literature-based TRVs, as well as those from previous documents developed by USEPA Region 2 for the LPRSA to derive risk estimates (HQs) in the risk characterization. In addition, several qualitative LOEs were evaluated that involved the evaluation of LPRSA data for mummichog egg counts and gross external and internal health observations.

COPECs with effect-level HQs ≥ 1.0 (based on either a LOAEL TRV for tissue and dietary LOEs or an acute or chronic surface water TRV) in at least one LOE were identified as preliminary COCs for the upper 9-mile evaluation (Table 3-28).

Table 3-28 Summary of preliminary COCs for fish for the upper 9 miles of the LPRSA

Species by Preliminary COC[b]	Range of LOAEL HQs[a]								
	Fish Tissue LOE		Dietary Dose LOE	Surface Water LOE[c]				Fish Egg Tissue LOE	
				Estuarine		Freshwater			
	HQ/EF Based on TRV-A[d]	HQ/EF Based on TRV-B[e]	HQ	HQ Based on Acute TRV	HQ Based on Chronic TRV	HQ Based on Acute TRV	HQ Based on Chronic TRV	HQ based on TRV-A[d]	HQ based on TRV-B[e]
Mercury									
Mummichog	0.14	0.19	0.73**–1.3**	0.033	0.064	0.043	0.29	0.084–0.83	0.084–0.83
American eel (< 50 cm)	0.54–0.77	0.73**–1.0**	0.55–0.92					ne[f]	ne[f]
American eel (≥ 50 cm)			0.77–0.99						
Largemouth bass	0.49–**1.9**	0.65**–2.6**	0.63–0.72						
Smallmouth bass	0.63–0.86	0.85–**1.2**	0.58–0.66						
White catfish	0.69–0.83	0.92–**1.1**	0.56–0.87						
Methylmercury									
Mummichog	0.090	0.12	0.011–0.016	not COPEC	not COPEC	not COPEC	not COPEC	0.052–0.52	0.052–0.52
American eel (< 50 cm)	0.54–0.77	0.73–**1.0**	0.15					ne[f]	ne[f]
American eel (≥ 50 cm)			0.58–0.66						
Largemouth bass	0.40–**1.5**	0.54–**2.0**	0.35–0.37						
Smallmouth bass	0.46–0.63	0.62–0.85	0.32–0.34						
White catfish	0.69–0.97	0.92**–1.3**	0.13–0.14						
Selenium									
White perch	0.52**–1.3**	na	0.42–0.43	0.0019	0.0079	na	0.18	ne[f]	ne[f]

Table 3-28 Summary of preliminary COCs for fish for the upper 9 miles of the LPRSA

Species by Preliminary COC[b]	Range of LOAEL HQs[a]								
	Fish Tissue LOE		Dietary Dose LOE	Surface Water LOE[c]				Fish Egg Tissue LOE	
				Estuarine		Freshwater			
	HQ/EF Based on TRV-A[d]	HQ/EF Based on TRV-B[e]	HQ	HQ Based on Acute TRV	HQ Based on Chronic TRV	HQ Based on Acute TRV	HQ Based on Chronic TRV	HQ based on TRV-A[d]	HQ based on TRV-B[e]
Total PCBs									
Mummichog	0.19	**1.3**	0.11–0.43	0.0049	0.14	0.019	0.083	**2.5–4.0**	**13–20**
Other forage fish	0.13–0.16	0.91–**1.2**						ne[f]	ne[f]
White perch	0.26–0.92	**1.9–6.6**	0.25–0.52						
Channel catfish	0.45–0.63	**3.2–4.5**	0.25–0.45						
Brown bullhead	0.16	**1.1**							
American eel (< 50 cm)	0.32–0.37	**2.3–2.6**	0.22–0.54						
American eel (≥ 50 cm)			0.50–**1.5**						
Largemouth bass	0.55–**2.1**	**4.0–15**	0.58–0.74						
Common carp	0.45**–1.6**	**3.2–11**	0.11–0.30						
Northern pike	0.53	**3.8**	0.67–**2.2**						
Smallmouth bass	0.26–0.37	**1.8–2.6**	0.54–0.68						
White catfish	0.84**–1.0**	**6.0–7.2**	0.26–0.46						
White sucker	0.22–0.76	**1.6–5.5**	0.10–0.34						

Table 3-28 Summary of preliminary COCs for fish for the upper 9 miles of the LPRSA

Species by Preliminary COC[b]	Range of LOAEL HQs[a]								
	Fish Tissue LOE		Dietary Dose LOE	Surface Water LOE[c]				Fish Egg Tissue LOE	
				Estuarine		Freshwater			
	HQ/EF Based on TRV-A[d]	HQ/EF Based on TRV-B[e]	HQ	HQ Based on Acute TRV	HQ Based on Chronic TRV	HQ Based on Acute TRV	HQ Based on Chronic TRV	HQ based on TRV-A[d]	HQ based on TRV-B[e]
PCB TEQ - fish									
White perch	0.010–0.020 (0.052–0.10[g])	0.67–**1.3**	0.70–**1.0**	0.0000012	0.0000050	0.0000073	0.000031	ne[f]	ne[f]
Channel catfish	0.015–0.021 (0.078–0.11[g])	**1.0–1.4**	0.64–0.86						
American eel (< 50 cm)	0.0073–0.010 (0.038–0.052[g])	0.49–0.67	0.59–**1.0**						
American eel (≥ 50 cm)			**1.3–2.1**						
Largemouth bass	0.018–0.14 (0.091–0.74[g])	**1.2–9.4**	**1.5**						
Common carp	0.016–0.043 (0.083–0.22[g])	**1.1–2.8**	0.33–0.61						
Northern pike	0.019 (0.010[g])	**1.3**	**1.5–2.7**						
Smallmouth bass	0.0083–0.012 (0.043–0.061[g])	0.56–0.78	**1.4**						
White catfish	0.029–0.037 (0.15–0.19[g])	**1.9–2.4**	0.65–0.87						
White sucker	0.011–0.027 (0.057–0.14[g])	0.72–**1.8**	0.30–0.62						

Table 3-28 Summary of preliminary COCs for fish for the upper 9 miles of the LPRSA

Species by Preliminary COC[b]	Range of LOAEL HQs[a]								
	Fish Tissue LOE		Dietary Dose LOE	Surface Water LOE[c]				Fish Egg Tissue LOE	
				Estuarine		Freshwater			
	HQ/EF Based on TRV-A[d]	HQ/EF Based on TRV-B[e]	HQ	HQ Based on Acute TRV	HQ Based on Chronic TRV	HQ Based on Acute TRV	HQ Based on Chronic TRV	HQ based on TRV-A[d]	HQ based on TRV-B[e]
2,3,7,8-TCDD									
Mummichog	0.83 (**4.3**[g])	**56**	ne	0.00058	0.0024	0.0035	0.015	not COPEC	
Other forage fish	0.13–0.48 (0.70–**2.5**[g])	**8.9–32**						ne[f]	ne[f]
Common carp	0.38**–4.8 (2.0–25**[g]**)**	**26–320**	ne						
White perch	0.52–**1.5 (2.7–7.8**[g]**)**	**34–100**	ne						
Channel catfish	0.80–**1.2** (**4.2–6.1**[g])	**53–78**	ne						
Brown bullhead	0.68 (**3.5**[g])	**45**							
White catfish	**1.3–1.9 (7.0–10**[g]**)**	**89–130**	ne						
White sucker	0.092**–1.1** (0.048–**5.7**[g])	**6.1–72**	ne						
American eel (< 50 cm)	0.012–0.26 (0.061–**1.3**[g])	0.78–**17**	ne						
American eel (≥ 50 cm)			ne						
Largemouth bass	0.0036**–1.5** (0.019–**7.8**[g])	0.24–**100**	ne						
Northern pike	0.79 (**4.1**[g])	**53**	ne						
Smallmouth bass	0.067–0.63 (0.35–**3.3**[g])	**4.4–42**	ne						

Table 3-28 Summary of preliminary COCs for fish for the upper 9 miles of the LPRSA

Species by Preliminary COC[b]	Range of LOAEL HQs[a]								
	Fish Tissue LOE		Dietary Dose LOE	Surface Water LOE[c]				Fish Egg Tissue LOE	
				Estuarine		Freshwater			
	HQ/EF Based on TRV-A[d]	HQ/EF Based on TRV-B[e]	HQ	HQ Based on Acute TRV	HQ Based on Chronic TRV	HQ Based on Acute TRV	HQ Based on Chronic TRV	HQ based on TRV-A[d]	HQ based on TRV-B[e]
PCDD/PCDF TEQ - fish									
Mummichog	0.83 (**4.3**[g])	**56**	**2.4–190**	0.00063	0.0026	0.0039	0.016	**1.0–1.7**	**1.0–1.7**
Other forage fish	0.15–0.50 (0.78–**2.6**[g])	**10–33**						ne[f]	ne[f]
Common carp	0.43**–5.0 (2.2–26**[g]**)**	**28–330**	**16–180**						
White perch	0.54–**1.6 (2.8–8.3**[g]**)**	**36–110**	**32–190**						
Channel catfish	0.83–**1.3** (**4.3–6.5**[g])	**56–83**	**19–180**						
Brown bullhead	0.71 (**3.7**[g])	**47**							
White catfish	**1.4–2.0 (7.4–10**[g]**)**	**94–130**	**20–180**						
White sucker	0.11**–1.1** (0.57–**5.7**[g])	**7.2–72**	**12–170**						
American eel (< 50 cm)	0.028–0.27 (0.15–**1.4**[g])	**1.9–17**	**24–200**						
American eel (≥ 50 cm)			**62–220**						
Largemouth bass	0.017**–1.5** (0.087–**7.8**[g])	**1.1–100**	**52–170**						
Northern pike	0.83 (**4.3**[g])	**56**	**63–210**						
Smallmouth bass	0.072–0.63 (0.37–**3.3**[g])	**4.8–42**	**48–160**						

Table 3-28 Summary of preliminary COCs for fish for the upper 9 miles of the LPRSA

Species by Preliminary COC[b]	Range of LOAEL HQs[a]								
	Fish Tissue LOE		Dietary Dose LOE	Surface Water LOE[c]				Fish Egg Tissue LOE	
				Estuarine		Freshwater			
	HQ/EF Based on TRV-A[d]	HQ/EF Based on TRV-B[e]	HQ	HQ Based on Acute TRV	HQ Based on Chronic TRV	HQ Based on Acute TRV	HQ Based on Chronic TRV	HQ based on TRV-A[d]	HQ based on TRV-B[e]
Total TEQ - fish									
Mummichog	0.83 (**4.3**[g])	**56**	**2.5–190**	0.00063	0.0026	0.0039	0.016	**1.0–1.7**	**1.0–1.7**
Other forage fish	0.16–0.50 (0.83–**2.6**[g])	**11–33**						ne[f]	ne[f]
Common carp	0.44**–5.0 (2.3–26**[g]**)**	**29–330**	**16–180**						
White perch	0.56–**1.6 (2.9–8.3**[g]**)**	**37–110**	**32–190**						
Channel catfish	0.83–**1.3** (**4.3–6.5**[g])	**56–83**	**20–170**						
Brown bullhead	0.72 (**3.7**[g])	**48**							
White catfish	**1.4–2.0 (7.4–10**[g]**)**	**94–130**	**20–170**						
White sucker	0.12**–1.1** (0.61–**5.7**[g])	**7.8–72**	**12–170**						
American eel (< 50 cm)	0.038–0.28 (0.20–**1.4**[g])	**2.6–18**	**24–200**						
American eel (≥ 50 cm)			**63–220**						
Largemouth bass	0.16**–1.5** (0.83–**7.8**[g])	**11–100**	**54–170**						
Northern pike	0.92 (**4.8**[g])	**61**	**65–210**						
Smallmouth bass	0.082–0.68 (0.43–**3.6**[g])	**5.4–46**	**49–160**						

Table 3-28 Summary of preliminary COCs for fish for the upper 9 miles of the LPRSA

Species by Preliminary COC[b]	Range of LOAEL HQs[a]								
	Fish Tissue LOE		Dietary Dose LOE	Surface Water LOE[c]				Fish Egg Tissue LOE	
				Estuarine		Freshwater			
	HQ/EF Based on TRV-A[d]	HQ/EF Based on TRV-B[e]	HQ	HQ Based on Acute TRV	HQ Based on Chronic TRV	HQ Based on Acute TRV	HQ Based on Chronic TRV	HQ based on TRV-A[d]	HQ based on TRV-B[e]
Dieldrin									
Channel catfish	0.24–0.28	**1.2–1.4**	ne	0.0044	0.019	not COPEC	not COPEC	ne[f]	ne[f]
American eel (< 50 cm)	0.23–0.55	**1.2–2.8**							
American eel (≥ 50 cm)									
Largemouth bass	0.080–0.20	**0.40–1.0**							
Common carp	0.24–0.29	**1.2–1.4**							
White catfish	0.14–0.24	0.70–**1.2**							
Northern pike	0.22	**1.1**							
Total DDx									
Common carp	0.25–**1.3**	0.33**–1.7**	0.0046–0.0090	0.12	0.21	0.0088	0.016	ne[f]	ne[f]
White catfish	0.77–0.90	**1.0–1.2**	0.010–0.016						
Cyanide									
LPRSA fish community	ne[h]	ne[h]	ne	**2.3**	**7.4**	0.43	**1.9**	ne[f]	ne[f]

Table 3-28 Summary of preliminary COCs for fish for the upper 9 miles of the LPRSA

Species by Preliminary COC[b]	Range of LOAEL HQs[a]								
	Fish Tissue LOE		Dietary Dose LOE	Surface Water LOE[c]				Fish Egg Tissue LOE	
				Estuarine		Freshwater			
	HQ/EF Based on TRV-A[d]	HQ/EF Based on TRV-B[e]	HQ	HQ Based on Acute TRV	HQ Based on Chronic TRV	HQ Based on Acute TRV	HQ Based on Chronic TRV	HQ based on TRV-A[d]	HQ based on TRV-B[e]
Cadmium									
Mummichog	0.33[i]	na	0.98–**1.5**	0.00082	0.0034	0.0054-0.026[c]	0.017-0.062[c]	ne[f]	ne[f]
Other forage fish	0.23–0.34[i]	na							
Common carp	0.18–0.34[i]	na	0.69–**1.2**						
Channel catfish	0.088–0.11[i]	na	0.58–**1.0**						
White catfish	0.10–0.12[i]	na	0.59–**1.0**						
White perch	0.11–0.14[i]	na	0.95–**1.3**						
White sucker	0.023–0.081[i]	na	0.79–**1.2**						
American eel (< 50 cm)	0.81–**1.2**[i]	na	**1.1–1.4**						
American eel (≥ 50 cm)		na	0.55–0.80						
Copper									
Mummichog	na	**2.5**	0.25–0.28	0.034-0.42	0.055-0.67	0.034-0.42	0.055-0.67	ne[f]	ne[f]
Other forage fish	na	**2.5–2.7**							
White perch	na	**5.1–8.0**	0.36–0.41						
Channel catfish	na	0.42–**1.4**	0.19–0.24						
American eel (< 50 cm)	na	**1.0–4.7**	0.36–0.40						
American eel (≥ 50 cm)			0.34–0.37						
Nickel									

Table 3-28 Summary of preliminary COCs for fish for the upper 9 miles of the LPRSA

Species by Preliminary COC[b]	Range of LOAEL HQs[a]								
	Fish Tissue LOE		Dietary Dose LOE	Surface Water LOE[c]				Fish Egg Tissue LOE	
				Estuarine		Freshwater			
	HQ/EF Based on TRV-A[d]	HQ/EF Based on TRV-B[e]	HQ	HQ Based on Acute TRV	HQ Based on Chronic TRV	HQ Based on Acute TRV	HQ Based on Chronic TRV	HQ based on TRV-A[d]	HQ based on TRV-B[e]
Mummichog	not a COPEC	not a COPEC	0.99–**1.0**	not a COPEC	not a COPEC	not a COPEC	not a COPEC	ne[f]	ne[f]
American eel (< 50 cm)			**1.1–1.2**						
American eel (≥ 50 cm)			0.55–0.98						
Northern pike			0.38–**1.1**						

Bold identifies HQs ≥ 1.0.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] Only COPECs with HQs ≥ 1.0 based on LOAEL TRV are included in table.

[c] Surface water evaluated for the LPRSA fish community. HQs for surface water derived by comparing UCL concentrations to the surface water TRV.

[d] TRVs were derived from the primary literature review.

[e] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007).

[f] The fish egg LOE was limited to mummichog for methylmercury/mercury, total PCBs, PCDD/PCDF TEQ - fish, and total TEQ - fish.

[g] HQs in parenthesis based on additional alternative SSD-derived LOAEL evaluated.

[h] Cyanide not evaluated using the tissue LOE for fish; cyanide not analyzed in LPRSA tissue.

[i] Preliminary COCs for regulated metals based on the tissue residue LOE were based on EFs rather than HQs.

BERA – baseline ecological risk assessment
COC – chemical of concern
COI – chemical of interest
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
LOAEL – lowest-observed-adverse-effect level
LOE – line of evidence
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
na – not applicable
PCDF – pentachlorodibenzofuran
SSD – species sensitivity distribution
TCDD – tetrachlorodibenzo-p-dioxin
TEQ – toxic equivalent

DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
EF – exceedance factor
FFS – focused feasibility study
HQ – hazard quotient
ne – not evaluated
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PCB – polychlorinated biphenyl
PCDD– pentachlorodibenzo-p-dioxin
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value
UCL – upper confidence limit on the mean
USEPA – US Environmental Protection Agency

4 Bird Assessment

The potential for risks to birds was characterized quantitatively using two LOEs, consistent with the LPRSA BERA:

- **Dietary LOE –** comparison of bird dietary doses to dietary dose TRVs
- **Egg tissue LOE –** comparison of modeled concentrations in egg tissue of piscivorous birds to egg tissue TRVs

These LOEs are presented in the following subsections.

4.1 DIETARY ASSESSMENT

Consistent with the BERA, the bird dietary assessment included the evaluation of the following species:

- Sediment-probing invertivore: spotted sandpiper (*Actitis macularia*)
- Piscivores: great blue heron (*Ardea herodias*) and belted kingfisher (*Ceryle alcyon*)

Table 4-1 presents the COPECs identified by the BERA for birds based on the dietary LOE. COPECs were evaluated by comparing LPRSA bird dietary doses to bird dietary TRVs.

Table 4-1. Bird dietary COPECs

COPEC		
Metals		
Cadmium	Lead	Selenium
Chromium	Methylmercury	Vanadium
Copper	Nickel	Zinc
PAHs		
Total LPAHs	Total HPAHs	
PCBs		
Total PCBs	PCB TEQ - bird	
PCDDs/PCDFs		
PCDD/PCDF TEQ - bird	Total TEQ - bird	
Organochlorine pesticides		
Total DDx		

Note: COPECs are those COIs for which the maximum modeled dietary dose exceeded its TSV. If a TSV was exceeded based on any avian species evaluated in the SLERA, it was retained as a COPEC for all birds.

COI – chemical of interest
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
SLERA – screening-level ecological risk assessment
TEQ – toxic equivalent

HPAH – high-molecular-weight polycyclic aromatic hydrocarbon

LPAH – low-molecular-weight polycyclic aromatic hydrocarbon

total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

TSV – toxicity screening value

4.1.1 Exposure

Dietary doses for birds were estimated based on ingestion of biota (i.e., prey), incidental ingestion of sediment, and ingestion of surface water. Dietary doses were estimated as milligrams of each COPEC ingested per kilogram of body weight per day (mg/kg bw/day) using the following equation:

$$Dose = \frac{\left[(FIR \times EPC_{prey}) + (SIR \times EPC_{sed}) + (WIR \times EPC_{water})\right]}{BW} \times SUF \qquad \textbf{Equation 4-1}$$

Where:

Dose = daily ingested dose (mg/kg bw/day)
FIR = food ingestion rate (kg ww/day)
EPC_{prey} = exposure point concentration of chemical in prey tissue (mg/kg ww)
SIR = incidental sediment ingestion rate (kg dw/day)
EPC_{sed} = exposure point concentration of chemical in sediment (mg/kg dw)
WIR = water ingestion rate (L/day)
EPC_{water} = exposure point concentration of chemical in water (mg/L)
BW = body weight (kg)
SUF = site use factor (unitless)

The body weights, ingestion rates, and SUFs were obtained from the literature for each bird species and are presented in Table 4-2. These parameters are described in detail in the main text of the BERA. A conservative SUF of 1.0 was assumed for all three bird species within each of the three exposure areas evaluated.

Table 4-2. Exposure parameter values for spotted sandpiper, great blue heron, and belted kingfisher

Species	BW (kg)[a]	Food Ingestion		Incidental SI			WIR (L/day)[c]
		FIR (kg ww/day)	Source	SI (%)[b]	SIR (kg dw/day)	Source	
Spotted sandpiper	0.0425	0.027[d]	Nagy (2001)[d]	18[e]	0.0013	Beyer et al. (1994)	0.0071
Great blue heron	2.3	0.40[f]	Kushlan (1978), as cited in USEPA (1993)	1	0.00081[g]	no empirical data available; based on feeding habits and best professional judgment	0.10
Belted kingfisher	0.147	0.074[h]	USEPA (1993)	0.5	0.000074[g]	no empirical data available; based on feeding habits and best professional judgment	0.016

[a] Average of male and female adult body weights reported by USEPA (1993).

[b] Based on percentage of the dry diet that is incidentally ingested sediment. Dry weight FIRs for great blue heron and belted kingfisher were estimated from wet weight FIRs assuming 80% moisture in the diet. The dry weight FIR for spotted sandpiper was based on data presented by Nagy (2001).

[c] WIR is based on Calder and Braun (1983), in which bird WIR = 0.059 x $BW^{0.67}$.

[d] Based on the body weight-normalized FIR of 0.64 g ww/g bw/day for common sandpiper [*Actitis hypoleucos*].

[e] Based on the average of SIRs measured for four sandpiper species (stilt sandpiper [*Calidris himantopus*] [17%], semipalmated sandpiper [*Calidris pusilla*] [30%], least sandpiper [*Calidris minutilla*] [7.3%], and western sandpiper [*Calidris mauri*] [18%]).

[f] FIR (g ww/day) = $10^{0.966\log(BW)-0.64}$ and body weight is in grams.

[g] Wet weight FIR converted to dry weight FIR assuming 80% moisture in prey (based on average moisture contents of 72, 79, and 88% for fish, invertebrates, and worms, respectively) to determine SIR in kg/day.

[h] FIR = 0.50 g ww/g bw/day.

BW or bw – body weight
dw – dry weight
FIR – food ingestion rate
SI – sediment ingestion
SIR – sediment ingestion rate
USEPA – US Environmental Protection Agency
WIR – water ingestion rate
ww – wet weight

The EPC for prey for each bird species was calculated from the fractions of different prey types in the bird species' diets and the EPCs for each of those prey types using Equation 3-2. The dietary fraction of each component in each bird species' diet was based on information obtained from the literature. The dietary fraction assumed for each species and the assumptions used for those fractions were based on multiple scenarios, which are described in detail in the main text of the BERA.

For this evaluation, the dietary fractions were evaluated within each of the three exposure areas (i.e., RM 8.3 to RM 17.4, RM 8.3 to RM 14.7, and RM 14.7 to RM 17.4). Table 4-3 presents the species-specific data groups evaluated for the bird dietary LOE.

Table 4-3. Dietary EPC groups for spotted sandpiper, great blue heron, and belted kingfisher

Species and Exposure Area	Prey Type			Sediment and Tissue Exposure Area	Surface Water Exposure Area
	Prey Type[a,b]	% in Diet	Sediment type		
Spotted sandpiper					
Scenario 1	worms	100	mudflats only	RM 8.3–RM 17.4; RM 8.3–RM 14.7; and RM 14.7–RM 17.4	RM 8.3–17.4 only[c]
Great blue heron					
Scenario 1	fish 0–13 cm	100	mudflats only	RM 8.3–RM 17.4; RM 8.3–RM 14.7; and RM 14.7–RM 17.4	RM 8.3–17.4 only[c]
Scenario 2	fish 0–13 cm	17	mudflats only	RM 8.3–RM 17.4; RM 8.3–RM 14.7; and RM 14.7–RM 17.4	RM 8.3–17.4 only[c]
	fish 13–18 cm	29			
	fish 18–30 cm	40			
	fish > 30 cm	14			

Table 4-3. Dietary EPC groups for spotted sandpiper, great blue heron, and belted kingfisher

Species and Exposure Area	Prey Type			Sediment and Tissue Exposure Area	Surface Water Exposure Area
	Prey Type[a,b]	% in Diet	Sediment type		
Belted kingfisher					
Scenario 1	blue crab	15	all surface sediment	RM 8.3–RM 17.4; RM 8.3–RM 14.7; and RM 14.7–RM 17.4	RM 8.3–17.4 only[c]
	fish 0–9 cm	85			
Scenario 2	blue crab	15	all surface sediment	RM 8.3–RM 17.4; RM 8.3–RM 14.7; and RM 14.7–RM 17.4	RM 8.3–17.4 only[c]
	fish 0–9 cm	31.5			
	fish 9–13 cm	51			
	fish 13–18 cm	2.5			

Note: If fewer than six samples were available for calculating a UCL, the maximum concentration was used.

[a] As represented by whole-body tissue concentrations.

[b] For composite fish samples, length was based on the maximum length of any fish in the sample.

[c] Because of the limited number of surface water samples between RM 8.3 and RM 17.4, all surface water data collected between RM 8.3 and RM 17.4 were used in all exposure area scenarios.

EPC – exposure point concentration

RM – river mile

UCL – upper confidence limit (on the mean)

EPCs were calculated for each of the modeled media types (prey, sediment, and water) to calculate dietary doses. UCL concentrations were calculated using USEPA's ProUCL® statistical package (Version 5.0.00) (USEPA 2013). For each dataset with fewer than six samples, a UCL was not calculated; instead, the maximum concentration was used as the EPC. This was also the case for some of the prey tissue groups, particularly in the RM 14.7 to RM 17.4 exposure area, where sample densities were low and no data were available for blue crab (Table 4-4).

Table 4-4. Summary of bird prey tissue, sediment, and surface water sample group counts by exposure area

Data Group	Number of Composite Samples		
	RM 8.3 to RM 17.4[a]	RM 8.3 to RM 14.7[b]	RM 14.7 to RM 17.4[c]
Prey tissue type			
Worms	n = 11	n = 10	n = 1[d]
Blue crab	n = 2	n = 2	no data[e]
Fish 0–9 cm	n = 4	n = 4	no data[f]
Fish 9–13 cm	n = 6	n = 3	n = 3
Fish 0–13 cm	n = 10	n = 7	n = 3
Fish 13–18 cm	n = 8	n = 5	n = 3
Fish 18–30 cm	n = 13	n = 8	n = 5

Data Group	Number of Composite Samples		
	RM 8.3 to RM 17.4[a]	RM 8.3 to RM 14.7[b]	RM 14.7 to RM 17.4[c]
Fish > 30 cm	n = 47	n = 31	n = 16
Sediment sample group			
All surface sediment samples	n = 522	n = 485	n = 37
Mudflat only sediment samples	n = 128	n = 111	n = 17
Surface water sample group			
All water samples	n = 66	n = 66	no data[g]

Shaded rows indicate where UCLs could be derived. In all other cases, maximum concentrations were used to represent the EPC because insufficient data were available to derive a UCL.

[a] Includes blue crab and fish tissue samples collected from Reach 5 (RM 8 to RM 10), Reach 6 (RM 10 to RM 12), Reach 7 (RM 12 to RM 14), and Reach 8 (RM 14 to RM 17.4).

[b] Includes blue crab and fish tissue samples collected from Reach 5 (RM 8 to RM 10), Reach 6 (RM 10 to RM 12), and Reach 7 (RM 12 to RM 14).

[c] Includes blue crab and fish tissue samples collected from Reach 8 (RM 14 to RM 17.4).

[d] Worms collected between RM 14 and RM 17.4 were not analyzed for metals (other than mercury) or PAHs. For metals (other than mercury), worms collected from RM 8.3 to RM 14.7 were used in the dietary evaluation for sandpiper in the exposure area between RM 14.7 and RM 17.4.

[e] No tissue data for blue crab were available between RM 14 and RM 17.4; therefore, blue crab collected from the RM 8.3 to RM 14.7 exposure area were used in the dietary evaluation for belted kingfisher in the exposure area between RM 14.7 and RM 17.4.

[f] No tissue data for fish 0 to 9 cm in length were available between RM 14 and RM 17.4; therefore, fish 0 to 9 cm in length collected from the RM 8.3 to RM 14.7 exposure area were used in the dietary evaluation for belted kingfisher in the exposure area between RM 14.7 and RM 17.4.

[g] No surface water data were available between RM 14 and RM 17.4; therefore, surface water data collected from RM 8.3 to RM 14.7 were used in the dietary evaluation for birds.

EPC – exposure point concentration
PAH – polycyclic aromatic hydrocarbon
RM – river mile
UCL – upper confidence limit (on the mean)

Dietary doses calculated based on Equations 4-1 and 3-2 are presented in Table 4-5.

Table 4-5. Dietary doses calculated for spotted sandpiper, great blue heron, and belted kingfisher

COPEC	Units	Exposure Area	Dietary Dose				
			Spotted Sandpiper	Great Blue Heron		Belted Kingfisher	
			Scenario 1	Scenario 1	Scenario 2	Scenario 1	Scenario 2
Cadmium	mg/kg bw/day	RM 8.3–RM 17.4	0.24	0.017	0.018	0.052	0.052
		RM 8.3–14.7	0.29	0.018	0.016	0.053	0.052
		RM 14.7–17.4	0.16	0.014	0.024	0.050	0.046
Chromium	mg/kg bw/day	RM 8.3–RM 17.4	29	3.6	5.4	11	11
		RM 8.3–14.7	30	3.1	7.2	11	8.7
		RM 14.7–17.4	26	5.8	2.0	11	13

Table 4-5. Dietary doses calculated for spotted sandpiper, great blue heron, and belted kingfisher

COPEC	Units	Exposure Area	Dietary Dose				
			Spotted Sandpiper	Great Blue Heron		Belted Kingfisher	
			Scenario 1	Scenario 1	Scenario 2	Scenario 1	Scenario 2
Copper	mg/kg bw/day	RM 8.3–RM 17.4	9.9	1.00	1.6	4.8	4.9
		RM 8.3–14.7	11	1.1	1.8	4.8	5.0
		RM 14.7–17.4	8.3	1.0	0.99	4.7	4.7
Lead	mg/kg bw/day	RM 8.3–RM 17.4	19	0.98	0.68	2.4	2.4
		RM 8.3–14.7	19	1.0	0.71	2.4	2.4
		RM 14.7–17.4	20	1.1	0.73	2.4	2.3
Methylmercury	µg/kg bw/day	RM 8.3–RM 17.4	1.2	4.7	25	18	19
		RM 8.3–14.7	1.1	4.7	30	18	19
		RM 14.7–17.4	0.74	5.1	25	18	19
Nickel	mg/kg bw/day	RM 8.3–RM 17.4	16	2.4	3.7	7.1	7.7
		RM 8.3–14.7	16	1.9	5.0	7.1	5.7
		RM 14.7–17.4	15	4.0	1.2	7.1	8.6
Selenium	mg/kg bw/day	RM 8.3–RM 17.4	0.54	0.14	0.22	0.45	0.41
		RM 8.3–14.7	0.54	0.15	0.25	0.45	0.41
		RM 14.7–17.4	0.53	0.16	0.16	0.45	0.44
Vanadium	mg/kg bw/day	RM 8.3–RM 17.4	1.8	0.32	0.23	0.85	0.85
		RM 8.3–14.7	1.9	0.31	0.26	0.85	0.80
		RM 14.7–17.4	1.5	0.34	0.20	0.84	0.83
Zinc	mg/kg bw/day	RM 8.3–RM 17.4	43	8.1	6.6	24	23
		RM 8.3–14.7	44	7.9	6.6	24	20
		RM 14.7–17.4	48	9.6	7.0	23	25
Total HPAHs	µg/kg bw/day	RM 8.3–RM 17.4	2500	140	100	320	370
		RM 8.3–14.7	2300	130	110	320	630
		RM 14.7–17.4	2700	200	110	320	410
Total LPAHs	µg/kg bw/day	RM 8.3–RM 17.4	470	42	42	63	110
		RM 8.3–14.7	470	32	45	64	85
		RM 14.7–17.4	460	75	33	64	140

Table 4-5. Dietary doses calculated for spotted sandpiper, great blue heron, and belted kingfisher

COPEC	Units	Exposure Area	Dietary Dose				
			Spotted Sandpiper	Great Blue Heron		Belted Kingfisher	
			Scenario 1	Scenario 1	Scenario 2	Scenario 1	Scenario 2
Benzo(a)pyrene	µg/kg bw/day	RM 8.3–RM 17.4	240	12	12	32	33
		RM 8.3–14.7	220	12	10	32	33
		RM 14.7–17.4	290	17	10	32	36
Total PAHs	µg/kg bw/day	RM 8.3–RM 17.4	2900	180	130	390	460
		RM 8.3–14.7	2600	160	150	390	450
		RM 14.7–17.4	3100	260	140	380	510
Total PCBs	µg/kg bw/day	RM 8.3–RM 17.4	300	96	310	330	310
		RM 8.3–14.7	300	110	480	330	360
		RM 14.7–17.4	92	85	220	330	270
PCB TEQ - bird	ng/kg bw/day	RM 8.3–RM 17.4	59	12	22	36	39
		RM 8.3–14.7	51	11	33	36	38
		RM 14.7–17.4	11	15	16	36	41
PCDD/PCDF TEQ - bird	ng/kg bw/day	RM 8.3–RM 17.4	91	11	20	53	37
		RM 8.3–14.7	100	13	28	53	43
		RM 14.7–17.4	1.9	4.0	7.2	52	29
Total TEQ - bird	ng/kg bw/day	RM 8.3–RM 17.4	130	22	42	84	71
		RM 8.3–14.7	150	24	61	84	79
		RM 14.7–17.4	14	17	22	83	65
Total DDx	ng/kg bw/day	RM 8.3–RM 17.4	17	11	29	39	36
		RM 8.3–14.7	19	13	37	39	39
		RM 14.7–17.4	4.7	9.9	31	39	33

bw – body weight
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
LPAH – low-molecular-weight polycyclic aromatic hydrocarbon
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

4.1.2 Effects

As described in the BERA, two sets of bird dietary TRVs were used for the derivation of HQs. The first set of TRVs was based on previous documents developed by USEPA Region 2 for the LPRSA:

- USEPA's LPR restoration project FFS (Louis Berger et al. 2014)
- USEPA's first draft of the LPRSA FFS (Malcolm Pirnie 2007)
- USEPA's LPR restoration project pathways analysis report (PAR) (Battelle 2005)

The second set of TRVs was derived based on a review of the general toxicological literature. Both NOAEL and LOAEL TRVs were derived. Table 4-6 presents the bird diet TRVs for the COPECs. Details and uncertainty associated with both sets of TRVs are provided in the main text of the BERA.

Table 4-6. Bird dietary TRVs

COPEC	Units	Range of TRVs[a]								
		TRV-A[b]				TRV-B[c]				
		NOAEL	LOAEL	Endpoint	Source	NOAEL	LOAEL	Endpoint	Source	Document
Metals										
Cadmium	mg/kg bw/day	0.4	4.0	growth (quail)	Richardson et al. (1974)	0.080	10.4	growth (quail)	Richardson et al. (1974), as cited in USEPA (2002)	2005 PAR (Battelle 2005)
Chromium	mg/kg bw/day	10.5[d]	105	survival and growth (chicken)	Chung et al. (1985)	nd	nd	nd	nd	nd
Copper	mg/kg bw/day	1.9[d]	19	growth (chicken)	Jensen and Maurice (1978)	2.3	4.7	growth (turkey)	Kashani et al. (1986), as cited in USEPA (2007a)	revised FFS (Louis Berger et al. 2014)
Lead	mg/kg bw/day	5.5	28	growth (quail)	Morgan et al. (1975)	0.19	1.9	reproduction (quail)	Edens and Garlich (1983), as cited in USEPA (2005b)	revised FFS (Louis Berger et al. 2014)
Methylmercury	µg/kg bw/day	9.6[d]	96	survival, growth, and reproduction (6 species)	Heinz (1974) (NOAEL); SSD-derived 5th percentile value (LOAEL)	13	26	reproduction (duck)	Heinz 1974, 1975, (1979), as cited in USEPA (1995a)	revised FFS (Louis Berger et al. 2014)
Nickel	mg/kg bw/day	15	33	growth (chicken)	Weber and Reid (1968)	1.38	56.3	growth (duck)	Cain & Pafford (1981), as cited in USEPA (2002)	2005 PAR (Battelle 2005)
Selenium	mg/kg bw/day	0.42	0.82	reproduction (duck)	Heinz et al. (1989)	0.23	0.93	reproduction (duck)	Heinz et al. (1989), as cited in USEPA (2002)	2005 PAR (Battelle 2005)
Vanadium	mg/kg bw/day	1.2	2.3	growth (chicken)	Ousterhout and Berg (1980)	nd	nd	nd	nd	nd
Zinc	mg/kg bw/day	82	124	growth (chicken)	Roberson and Schaible (1960)	17.2	172	growth/ reproduction (duck)	Gasaway & Buss (1972), as cited in USEPA (2002)	2005 PAR (Battelle 2005)

Table 4-6. Bird dietary TRVs

COPEC	Units	Range of TRVs[a]								
		TRV-A[b]				TRV-B[c]				
		NOAEL	LOAEL	Endpoint	Source	NOAEL	LOAEL	Endpoint	Source	Document
PAHs										
Total LPAHs	µg/kg bw/day	nd	nd	nd	nd	670	6,700	survival (blackbird)	Schafer et al. (1983)	revised FFS (Louis Berger et al. 2014)
Total HPAHs	µg/kg bw/day	nd	nd	nd	nd	48	480	reproduction (pigeon)	Hough et al. (1993)	revised FFS (Louis Berger et al. 2014)
Benzo(a)pyrene (HPAH)	µg/kg bw/day	140[d]	1,400	reproduction (pigeon)	Hough el al. (1993)	nd	nd	nd	nd	nd
Total PAHs	µg/kg bw/day	40,000	na	growth (duck)	Patton and Dieter (1980)	nd	nd	nd	nd	nd
PCDDs/PCDFs										
TEQ - bird	ng/kg bw/day	14	140	mortality/ growth/ reproduction (pheasant)	Nosek et al. (1992)	2.8	28	reproduction (pheasant)	Nosek et al. (1992), as cited in USEPA (1995a)	revised FFS (Louis Berger et al. 2014)
PCBs										
Total PCBs	µg/kg bw/day	140	1,400	reproduction (dove)	Peakall et al. (1972); Peakall and Peakall (1973)	400	500	reproduction (chicken)	Chapman (2003)	revised FFS (Louis Berger et al. 2014)

Table 4-6. Bird dietary TRVs

COPEC	Units	Range of TRVs[a]								
		TRV-A[b]				TRV-B[c]				
		NOAEL	LOAEL	Endpoint	Source	NOAEL	LOAEL	Endpoint	Source	Document
Organochlorine Pesticides										
Total DDx	µg/kg bw/day	25[d]	250	survival, growth, and reproduction (10 species)	(Davison and Sell 1974) (NOAEL) SSD-derived 5th percentile value (LOAEL)	0.9	27	reproduction (pelican)	Anderson et al. (1975), as cited in USEPA (1995a)	revised FFS (Louis Berger et al. 2014)

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] TRVs were derived from the primary literature review based on process identified in the main text of the BERA.

[c] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007).

[d] NOAEL extrapolated from LOAEL using an uncertainty factor of 10.

BERA – baseline ecological risk assessment
bw – body weight
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
FFS – focused feasibility study
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
LOAEL – lowest-observed-adverse-effect level
LPAH – low-molecular-weight polycyclic aromatic hydrocarbon
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
na – not available
nd – not derived
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PAH – polycyclic aromatic hydrocarbon
PAR – pathways analysis report
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
SSD – species sensitivity distribution
TEQ – toxic equivalent
TRV – toxicity reference value
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
USEPA – US Environmental Protection Agency

4.1.3 HQ Results

Tables 4-7a through 4-7c present the bird dietary HQs for the COPECs in the three exposure areas: RM 8.3 to RM 17.4, RM 8.3 to RM 14.7, and RM 14.7 to RM 17.4. LOAEL HQs were ≥ 1.0 for at least one exposure area and at least one species for the following COPECs: copper, lead, methylmercury, total HPAHs, PCB TEQ-bird, PCDD/PCDF TEQ-bird, total TEQ-bird, and total DDx.

Table 4-7a. Spotted sandpiper dietary HQs

COPEC	Exposure Area	Range of HQs[a]			
		HQ Based on TRV-A[b]		HQ Based on TRV-B[c]	
		NOAEL	LOAEL	NOAEL	LOAEL
Cadmium	RM 8.3–RM 17.4	0.60	0.060	**3.0**	0.023
	RM 8.3–14.7	0.71	0.071	**3.6**	0.027
	RM 14.7–17.4	0.39	0.039	**2.0**	0.015
Chromium	RM 8.3–RM 17.4	**2.8**	0.28	na	na
	RM 8.3–14.7	**2.9**	0.29	na	na
	RM 14.7–17.4	**2.5**	0.25	na	na
Copper	RM 8.3–RM 17.4	**5.2**	0.52	**4.3**	**2.1**
	RM 8.3–14.7	**5.5**	0.55	**4.6**	**2.2**
	RM 14.7–17.4	**4.4**	0.44	**3.6**	**1.8**
Lead	RM 8.3–RM 17.4	**3.4**	0.66	**97**	**9.7**
	RM 8.3–14.7	**3.5**	0.69	**102**	**10**
	RM 14.7–17.4	**3.6**	0.71	**105**	**11**
Methylmercury	RM 8.3–RM 17.4	0.13	0.013	0.094	0.047
	RM 8.3–14.7	0.12	0.012	0.087	0.044
	RM 14.7–17.4	0.077	0.010	0.057	0.028
Nickel	RM 8.3–RM 17.4	**1.0**	0.48	**11**	0.28
	RM 8.3–14.7	**1.1**	0.48	**11**	0.28
	RM 14.7–17.4	**1.0**	0.47	**11**	0.27
Selenium	RM 8.3–RM 17.4	**1.3**	0.66	**2.3**	0.58
	RM 8.3–14.7	**1.3**	0.66	**2.3**	0.58
	RM 14.7–17.4	**1.3**	0.65	**2.3**	0.57

Table 4-7a. Spotted sandpiper dietary HQs

COPEC	Exposure Area	Range of HQs[a]			
		HQ Based on TRV-A[b]		HQ Based on TRV-B[c]	
		NOAEL	LOAEL	NOAEL	LOAEL
Vanadium	RM 8.3–RM 17.4	**1.5**	0.77	na	na
	RM 8.3–14.7	**1.5**	0.81	na	na
	RM 14.7–17.4	**1.2**	0.63	na	na
Zinc	RM 8.3–RM 17.4	0.53	0.35	**2.5**	0.25
	RM 8.3–14.7	0.54	0.35	**2.6**	0.26
	RM 14.7–17.4	0.59	0.39	**2.8**	0.28
Total HPAHs	RM 8.3–RM 17.4	na	na	**52**	**5.2**
	RM 8.3–14.7	na	na	**48**	**4.8**
	RM 14.7–17.4	na	na	**56**	**5.6**
Total LPAHs	RM 8.3–RM 17.4	na	na	0.71	0.071
	RM 8.3–14.7	na	na	0.71	0.071
	RM 14.7–17.4	na	na	0.69	0.069
Benzo(a)pyrene	RM 8.3–RM 17.4	**1.7**	0.17	na	na
	RM 8.3–14.7	**1.5**	0.15	na	na
	RM 14.7–17.4	**2.0**	0.20	na	na
Total PAHs	RM 8.3–RM 17.4	0.072	na	na	na
	RM 8.3–14.7	0.066	na	na	na
	RM 14.7–17.4	0.077	na	na	na
Total PCBs	RM 8.3–RM 17.4	**2.2**	0.22	0.76	0.61
	RM 8.3–14.7	**2.2**	0.22	0.76	0.61
	RM 14.7–17.4	0.65	0.065	0.23	0.18
PCB TEQ - bird	RM 8.3–RM 17.4	**4.2**	0.42	**21**	**2.1**
	RM 8.3–14.7	**3.6**	0.36	**18**	**1.8**
	RM 14.7–17.4	0.81	0.081	**4.0**	0.40
PCDD/PCDF TEQ - bird	RM 8.3–RM 17.4	**6.5**	0.65	**32**	**3.2**
	RM 8.3–14.7	**7.4**	0.74	**37**	**3.7**
	RM 14.7–17.4	0.14	0.014	0.68	0.068
Total TEQ - bird	RM 8.3–RM 17.4	**9.3**	0.93	**46**	**4.6**
	RM 8.3–14.7	**11**	**1.1**	**53**	**5.3**
	RM 14.7–17.4	0.96	0.096	**4.8**	0.48

Table 4-7a. Spotted sandpiper dietary HQs

COPEC	Exposure Area	Range of HQs[a]			
		HQ Based on TRV-A[b]		HQ Based on TRV-B[c]	
		NOAEL	LOAEL	NOAEL	LOAEL
Total DDx	RM 8.3–RM 17.4	0.69	0.069	**19**	0.64
	RM 8.3–14.7	0.74	0.074	**21**	0.69
	RM 14.7–17.4	0.19	0.019	**5.3**	0.18

Bold identifies HQs ≥ 1.0.

Shaded cells identify HQs ≥ 1.0 based on a LOAEL TRV.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] TRVs were derived from the primary literature review based on process identified in the main text of the BERA.

[c] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014), the first draft of the LPR restoration project FFS (Malcolm Pirnie 2007), or USEPA's LPR restoration project PAR (Battelle 2005).

BERA – baseline ecological risk assessment
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
FFS – focused feasibility study
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
LPAH – low-molecular-weight polycyclic aromatic hydrocarbon
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
na – not applicable (no TRV available)
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile
TEQ – toxic equivalent
TRV – toxicity reference value
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
USEPA – US Environmental Protection Agency

Table 4-7b. Great blue heron dietary HQs

COPEC	Exposure Area	Range of HQs[a]							
		Diet Scenario 1				Diet Scenario 2			
		HQ Based on TRV-A[b]		HQ Based on TRV-B[c]		HQ Based on TRV-A[b]		HQ Based on TRV-B[c]	
		NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
Cadmium	RM 8.3–RM 17.4	0.042	0.0042	0.21	0.0016	0.045	0.0045	0.22	0.0017
	RM 8.3–14.7	0.045	0.0045	0.23	0.0017	0.041	0.0041	0.20	0.0016
	RM 14.7–17.4	0.036	0.0036	0.18	0.0014	0.060	0.0060	0.30	0.0023
Chromium	RM 8.3–RM 17.4	0.35	0.035	na	na	0.51	0.051	na	na
	RM 8.3–14.7	0.30	0.030	na	na	0.69	0.069	na	na
	RM 14.7–17.4	0.55	0.055	na	na	0.19	0.019	na	na
Copper	RM 8.3–RM 17.4	0.53	0.053	0.43	0.21	0.83	0.083	0.68	0.33
	RM 8.3–14.7	0.56	0.056	0.46	0.22	0.93	0.093	0.77	0.38
	RM 14.7–17.4	0.53	0.053	0.44	0.22	0.52	0.052	0.43	0.21
Lead	RM 8.3–RM 17.4	0.18	0.035	**5.2**	0.52	0.12	0.024	**3.6**	0.36
	RM 8.3–14.7	0.18	0.036	**5.3**	0.53	0.13	0.025	**3.7**	0.37
	RM 14.7–17.4	0.19	0.038	**5.5**	0.55	0.13	0.026	**3.8**	0.38
Methylmercury	RM 8.3–RM 17.4	0.49	0.049	0.36	0.18	**2.6**	0.26	**1.9**	0.97
	RM 8.3–14.7	0.49	0.049	0.36	0.18	**3.1**	0.31	**2.3**	**1.1**
	RM 14.7–17.4	0.53	0.053	0.39	0.19	**2.6**	0.26	**1.9**	0.97
Nickel	RM 8.3–RM 17.4	0.16	0.072	**1.7**	0.042	0.25	0.11	**2.7**	0.066
	RM 8.3–14.7	0.12	0.056	**1.3**	0.033	0.33	0.15	**3.6**	0.089
	RM 14.7–17.4	0.26	0.12	**2.9**	0.070	0.083	0.038	0.90	0.022
Selenium	RM 8.3–RM 17.4	0.34	0.18	0.62	0.15	0.52	0.26	0.94	0.23
	RM 8.3–14.7	0.35	0.18	0.65	0.16	0.59	0.30	**1.1**	0.27
	RM 14.7–17.4	0.38	0.19	0.69	0.17	0.39	0.20	0.70	0.17

Table 4-7b. Great blue heron dietary HQs

COPEC	Exposure Area	Range of HQs[a]							
		Diet Scenario 1				Diet Scenario 2			
		HQ Based on TRV-A[b]		HQ Based on TRV-B[c]		HQ Based on TRV-A[b]		HQ Based on TRV-B[c]	
		NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
Vanadium	RM 8.3–RM 17.4	0.26	0.14	na	na	0.20	0.10	na	na
	RM 8.3–14.7	0.26	0.14	na	na	0.21	0.11	na	na
	RM 14.7–17.4	0.28	0.15	na	na	0.17	0.087	na	na
Zinc	RM 8.3–RM 17.4	0.099	0.065	0.47	0.05	0.080	0.053	0.38	0.038
	RM 8.3–14.7	0.096	0.064	0.46	0.05	0.081	0.053	0.38	0.038
	RM 14.7–17.4	0.12	0.077	0.56	0.06	0.085	0.057	0.41	0.041
Total HPAHs	RM 8.3–RM 17.4	na	na	**2.9**	0.29	na	na	**2.1**	0.21
	RM 8.3–14.7	na	na	**2.8**	0.28	na	na	**2.2**	0.22
	RM 14.7–17.4	na	na	**4.2**	0.42	na	na	**2.3**	0.23
Total LPAHs	RM 8.3–RM 17.4	na	na	0.063	0.0063	na	na	0.062	0.0062
	RM 8.3–14.7	na	na	0.047	0.0047	na	na	0.067	0.0067
	RM 14.7–17.4	na	na	0.11	0.011	na	na	0.049	0.0049
Benzo(a)pyrene	RM 8.3–RM 17.4	0.089	0.0089	na	na	0.083	0.0083	na	na
	RM 8.3–14.7	0.089	0.0089	na	na	0.071	0.0071	na	na
	RM 14.7–17.4	0.12	0.012	na	na	0.070	0.0070	na	na
Total PAHs	RM 8.3–RM 17.4	0.0044	na	na	na	0.0031	na	na	na
	RM 8.3–14.7	0.0041	na	na	na	0.0037	na	na	na
	RM 14.7–17.4	0.0064	na	na	na	0.0035	na	na	na
Total PCBs	RM 8.3–RM 17.4	0.69	0.069	0.24	0.19	**2.2**	0.22	0.77	0.62
	RM 8.3–14.7	0.75	0.075	0.26	0.21	**3.4**	0.34	**1.2**	0.96
	RM 14.7–17.4	0.61	0.061	0.21	0.17	**1.6**	0.16	0.54	0.44

Table 4-7b. Great blue heron dietary HQs

COPEC	Exposure Area	Range of HQs[a]							
		Diet Scenario 1				Diet Scenario 2			
		HQ Based on TRV-A[b]		HQ Based on TRV-B[c]		HQ Based on TRV-A[b]		HQ Based on TRV-B[c]	
		NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
PCB TEQ - bird	RM 8.3–RM 17.4	0.87	0.087	**4.3**	0.43	**1.5**	0.15	**7.7**	0.77
	RM 8.3–14.7	0.81	0.081	**4.0**	0.40	**2.3**	0.23	**12**	**1.2**
	RM 14.7–17.4	**1.1**	0.11	**5.5**	0.55	**1.1**	0.11	**5.6**	0.56
PCDD/PCDF TEQ - bird	RM 8.3–RM 17.4	0.76	0.076	**3.8**	0.38	**1.4**	0.14	**7.0**	0.70
	RM 8.3–14.7	0.96	0.096	**4.8**	0.48	**2.0**	0.20	**10**	**1.0**
	RM 14.7–17.4	0.29	0.029	**1.4**	0.14	0.52	0.052	**2.6**	0.26
Total TEQ - bird	RM 8.3–RM 17.4	**1.6**	0.16	**7.8**	0.78	**3.0**	0.30	**15**	**1.5**
	RM 8.3–14.7	**1.7**	0.17	**8.5**	0.85	**4.3**	0.43	**22**	**2.2**
	RM 14.7–17.4	**1.2**	0.12	**6.2**	0.62	**1.6**	0.16	**7.8**	0.78
Total DDx	RM 8.3–RM 17.4	0.45	0.045	**13**	0.42	**1.2**	0.12	**32**	**1.1**
	RM 8.3–14.7	0.50	0.050	**14**	0.47	**1.5**	0.15	**41**	**1.4**
	RM 14.7–17.4	0.40	0.040	**11**	0.37	**1.2**	0.12	**34**	**1.1**

Bold identifies HQs ≥ 1.0.

Shaded cells identify HQs ≥ 1.0 based on a LOAEL TRV.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] TRVs were derived from the primary literature review based on process identified in the main text of the BERA.

[c] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014), the first draft of the LPR restoration project FFS (Malcolm Pirnie 2007), or USEPA's LPR restoration project PAR (Battelle 2005).

BERA – baseline ecological risk assessment
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
LPAH – low-molecular-weight polycyclic aromatic hydrocarbon
LPR – Lower Passaic River
PAR – pathways analysis report
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin

DDE – dichlorodiphenyldichloroethylene

DDT – dichlorodiphenyltrichloroethane

FFS – focused feasibility study

HPAH – high-molecular-weight polycyclic aromatic hydrocarbon

LOAEL – lowest-observed-adverse-effect level

LPRSA – Lower Passaic River Study Area

HQ – hazard quotient

na – not applicable (no TRV available)

NJDEP – New Jersey Department of Environmental Protection

NOAEL – no-observed-adverse-effect level

PAH – polycyclic aromatic hydrocarbon

PCDF – polychlorinated dibenzofuran

RM – river mile

TEQ – toxic equivalent

TRV – toxicity reference value

total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

USEPA – US Environmental Protection Agency

Table 4-7c. Belted kingfisher dietary HQs

COPEC	Exposure Area	Range of HQs[a]							
		Diet Scenario 1				Diet Scenario 2			
		HQ Based on TRV-A[b]		HQ Based on TRV-B[c]		HQ Based on TRV-A[b]		HQ Based on TRV-B[c]	
		NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
Cadmium	RM 8.3–RM 17.4	0.13	0.013	0.65	0.0050	0.13	0.013	0.65	0.0050
	RM 8.3–14.7	0.13	0.013	0.66	0.0051	0.13	0.013	0.65	0.0050
	RM 14.7–17.4	0.13	0.013	0.63	0.0048	0.12	0.012	0.58	0.0044
Chromium	RM 8.3–RM 17.4	**1.0**	0.10	na	na	**1.1**	0.11	na	na
	RM 8.3–14.7	**1.0**	0.10	na	na	0.83	0.083	na	na
	RM 14.7–17.4	**1.0**	0.10	na	na	**1.2**	0.12	na	na
Copper	RM 8.3–RM 17.4	**2.5**	0.25	**2.1**	**1.0**	**2.6**	0.26	**2.1**	**1.0**
	RM 8.3–14.7	**2.5**	0.25	**2.1**	**1.0**	**2.6**	0.26	**2.2**	**1.1**
	RM 14.7–17.4	**2.5**	0.25	**2.1**	**1.0**	**2.5**	0.25	**2.1**	**1.0**
Lead	RM 8.3–RM 17.4	0.43	0.085	**13**	**1.3**	0.43	0.085	**13**	**1.3**
	RM 8.3–14.7	0.43	0.09	**13**	**1.3**	0.43	0.085	**13**	**1.3**
	RM 14.7–17.4	0.43	0.085	**12**	**1.2**	0.43	0.084	**12**	**1.2**
Methylmercury	RM 8.3–RM 17.4	**1.9**	0.19	**1.4**	0.71	**2.0**	0.20	**1.4**	0.72
	RM 8.3–14.7	**1.9**	0.19	**1.4**	0.71	**2.0**	0.20	**1.5**	0.73
	RM 14.7–17.4	**1.9**	0.19	**1.4**	0.71	**2.0**	0.20	**1.5**	0.73
Nickel	RM 8.3–RM 17.4	0.47	0.21	**5.1**	0.13	0.51	0.23	**5.6**	0.14
	RM 8.3–14.7	0.47	0.21	**5.1**	0.13	0.38	0.17	**4.2**	0.10
	RM 14.7–17.4	0.47	0.21	**5.1**	0.13	0.57	0.26	**6.2**	0.15
Selenium	RM 8.3–RM 17.4	**1.1**	0.55	**2.0**	0.49	0.98	0.50	**1.8**	0.44
	RM 8.3–14.7	**1.1**	0.55	**2.0**	0.49	0.98	0.50	**1.8**	0.44
	RM 14.7–17.4	**1.1**	0.55	**2.0**	0.49	**1.0**	0.54	**1.9**	0.47

Table 4-7c. Belted kingfisher dietary HQs

COPEC	Exposure Area	Range of HQs[a]							
		Diet Scenario 1				Diet Scenario 2			
		HQ Based on TRV-A[b]		HQ Based on TRV-B[c]		HQ Based on TRV-A[b]		HQ Based on TRV-B[c]	
		NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
Vanadium	RM 8.3–RM 17.4	0.71	0.37	na	na	0.71	0.37	na	na
	RM 8.3–14.7	0.71	0.37	na	na	0.67	0.35	na	na
	RM 14.7–17.4	0.70	0.37	na	na	0.69	0.36	na	na
Zinc	RM 8.3–RM 17.4	0.29	0.19	**1.4**	0.14	0.28	0.19	**1.3**	0.13
	RM 8.3–14.7	0.29	0.19	**1.4**	0.14	0.25	0.16	**1.2**	0.12
	RM 14.7–17.4	0.29	0.19	**1.4**	0.14	0.30	0.20	**1.4**	0.14
Total HPAHs	RM 8.3–RM 17.4	na	na	**6.7**	0.67	na	na	**7.7**	0.77
	RM 8.3–14.7	na	na	**6.8**	0.68	na	na	**7.6**	0.76
	RM 14.7–17.4	na	na	**6.6**	0.66	na	na	**8.5**	0.85
Total LPAHs	RM 8.3–RM 17.4	na	na	0.095	0.0095	na	na	0.16	0.016
	RM 8.3–14.7	na	na	0.095	0.0095	na	na	0.13	0.013
	RM 14.7–17.4	na	na	0.096	0.0096	na	na	0.20	0.020
Benzo(a)pyrene	RM 8.3–RM 17.4	0.23	0.023	na	na	0.24	0.024	na	na
	RM 8.3–14.7	0.23	0.023	na	na	0.23	0.023	na	na
	RM 14.7–17.4	0.23	0.023	na	na	0.25	0.025	na	na
Total PAHs	RM 8.3–RM 17.4	0.010	na	na	na	0.011	na	na	na
	RM 8.3–14.7	0.0097	na	na	na	0.011	na	na	na
	RM 14.7–17.4	0.0095	na	na	na	0.013	na	na	na
Total PCBs	RM 8.3–RM 17.4	**2.4**	0.24	0.82	0.66	**2.2**	0.22	0.77	0.61
	RM 8.3–14.7	**2.4**	0.24	0.82	0.66	**2.6**	0.26	0.90	0.72
	RM 14.7–17.4	**2.3**	0.23	0.82	0.66	**2.0**	0.20	0.68	0.55

Table 4-7c. Belted kingfisher dietary HQs

COPEC	Exposure Area	Range of HQs[a]							
		Diet Scenario 1				Diet Scenario 2			
		HQ Based on TRV-A[b]		HQ Based on TRV-B[c]		HQ Based on TRV-A[b]		HQ Based on TRV-B[c]	
		NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
PCB TEQ - bird	RM 8.3–RM 17.4	**2.6**	0.26	**13**	**1.3**	**2.8**	0.28	**14**	**1.4**
	RM 8.3–14.7	**2.6**	0.26	**13**	**1.3**	**2.7**	0.27	**14**	**1.4**
	RM 14.7–17.4	**2.6**	0.26	**13**	**1.3**	**2.9**	0.29	**15**	**1.5**
PCDD/PCDF TEQ - bird	RM 8.3–RM 17.4	**3.8**	0.38	**19**	**1.9**	**2.6**	0.26	**13**	**1.3**
	RM 8.3–14.7	**3.8**	0.38	**19**	**1.9**	**3.1**	0.31	**15**	**1.5**
	RM 14.7–17.4	**3.7**	0.37	**18**	**1.8**	**2.1**	0.21	**10**	**1.0**
Total TEQ - bird	RM 8.3–RM 17.4	**6.0**	0.60	**30**	**3.0**	**5.1**	0.51	**25**	**2.5**
	RM 8.3–14.7	**6.0**	0.60	**30**	**3.0**	**5.6**	0.56	**28**	**2.8**
	RM 14.7–17.4	**5.9**	0.59	**30**	**3.0**	**4.6**	0.46	**23**	**2.3**
Total DDx	RM 8.3–RM 17.4	**1.6**	0.16	**44**	**1.5**	**1.4**	0.14	**40**	**1.3**
	RM 8.3–14.7	**1.6**	0.16	**44**	**1.5**	**1.6**	0.16	**44**	**1.5**
	RM 14.7–17.4	**1.6**	0.16	**44**	**1.5**	**1.3**	0.13	**37**	**1.2**

Bold identifies HQs ≥ 1.0.

Shaded cells identify HQs ≥ 1.0 based on a LOAEL TRV.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

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LPR – Lower Passaic River
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile

DDE – dichlorodiphenyldichloroethylene

DDT – dichlorodiphenyltrichloroethane

FFS – focused feasibility study

HPAH – high-molecular-weight polycyclic aromatic hydrocarbon

HQ – hazard quotient

LOAEL – lowest-observed-adverse-effect level

LPRSA – Lower Passaic River Study Area

na – not applicable (no TRV available)

NJDEP – New Jersey Department of Environmental Protection

NOAEL – no-observed-adverse-effect level

PAH – polycyclic aromatic hydrocarbon

PAR – pathways analysis report

PCB – polychlorinated biphenyl

TEQ – toxic equivalent

TRV – toxicity reference value

total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

USEPA – US Environmental Protection Agency

4.1.4 Key uncertainties

The uncertainties associated with the bird dietary risk characterization are discussed in the BERA.

4.1.5 Summary

Sixteen dietary COPECs were evaluated for birds. Table 4-8 provides the range in LOAEL HQs for all dietary and exposure area scenarios, using a range of TRVs for the COPECs with LOAEL HQs ≥ 1.0. The following bird species and COPECs had LOAEL HQs ≥ 1.0 for at least one exposure scenario:

- Spotted sandpiper – copper, lead, total HPAHs, PCB TEQ - bird, PCDD/PCDF TEQ - bird, and total TEQ - bird
- Belted kingfisher – copper, lead, PCB TEQ - bird, PCDD/PCDF TEQ - bird, total TEQ – bird, and total DDx
- Great blue heron – methylmercury, PCB TEQ - bird, PCDD/PCDF TEQ - bird, total TEQ – bird, and total DDx

Bird diet COPECs with LOAEL HQs > 1.0 based on this upper 9-mile evaluation were the same as those in the 17.4-mile LPRSA BERA, except for total PCBs, which had LOAEL HQs ≤ 1.0 for all bird receptors in the upper 9-mile evaluation but LOAEL HQs > 1.0 for the entire LPRSA for some receptors/scenarios. HQs were generally similar between the BERA and this upper 9-mile evaluation, except that LOAEL HQs for PCDD/PCDF TEQ were much lower in upper 9-mile exposure areas; in addition, TEQ HQs were < 1.0 in the upper segment exposure area (RM 14.7 – RM 17.4).

Table 4-8. Summary of bird dietary LOAEL HQs

COPEC[b]	Range of HQs[a]						Key Uncertainty
	Spotted Sandpiper		Great Blue Heron		Belted Kingfisher		
	HQ Based on TRV-A[c]	HQ Based on TRV-B[d]	HQ Based on TRV-A[c]	HQ Based on TRV-B[d]	HQ Based on TRV-A[c]	HQ Based on TRV-B[d]	
Copper	0.44–0.55	**1.8–2.2**	0.052–0.093	0.21–0.38	0.25–0.26	**1.0–1.1**	• TRVs based on slight reductions in growth (TRV-A based on 10% reduction in chicken growth and TRV-B based on 4% reduction in turkey growth); may overestimate potential adverse effects on LPRSA populations
Lead	0.66–0.71	**9.7–11**	0.024–0.038	0.36–0.55	0.084–0.085	**1.2–1.3**	• TRV-A based on 10% reduction in quail growth; may overestimate potential adverse effects on LPRSA populations • TRV-B based on reduced quail egg production; not evident that effects on Japanese quail egg production rates would reflect adverse effects on reproduction in wild birds
Methylmercury	0.010–0.013	0.028–0.047	0.049–0.31	0.18–**1.1**	0.19–0.20	0.71–0.73	• TRV-A based on SSD within the range of measured LOAELs • TRV-B derived using interspecies extrapolation factor of 3 based on exposure to methylmercury dicyandiamide, a fungicide that is not a form of mercury expected to be associated with the LPRSA
Total HPAHs	ne[e]	**4.8–5.6**	ne[e]	0.21–0.42	ne[e]	0.66–0.85	• TRV-B based on weekly injection study of pigeons with single PAH (benzo[a]pyrene) with interspecies extrapolation factor of 3 applied
PCB TEQ - bird	0.081–0.42	0.40–**2.1**	0.081–0.23	0.40–**1.2**	0.26–0.29	**1.3–1.5**	• TRV-A and TRV-B based on same literature source using weekly injection of pheasants • TRV-B extrapolated from study using an interspecies extrapolation factor of 5 • High variability of bird TEFs and differences in species sensitivities to dioxin-like compounds
PCDD/PCDF TEQ - bird	0.014–0.74	0.068**–3.7**	0.029–0.20	0.14**–1.0**	0.21–0.38	**1.0–1.9**	
Total TEQ - bird	0.096–**1.1**	0.48–**5.3**	0.12–0.43	0.62**–2.2**	0.46–0.60	**2.3–3.0**	
Total DDx	0.019–0.074	0.18–0.69	0.040–0.15	0.37**–1.4**	0.13–0.16	**1.2–1.5**	• TRV-A based on SSD within range of measured LOAELs evaluated • TRV-B based on field study of eggshell thinning in pelicans

Bold identifies HQs ≥ 1.0.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive

endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] Only COPECs with HQs ≥ 1.0 based on a LOAEL TRV are included in the table.

[c] TRVs were derived from the primary literature review based on process identified in the main text of the BERA.

[d] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014), the first draft of the LPR restoration project FFS (Malcolm Pirnie 2007), or USEPA's LPR restoration project PAR (Battelle 2005).

[e] TRV-A set did not include HPAHs for evaluation; benzo(a)pyrene was evaluated as an individual PAH and LOAEL HQs were < 1 based on this TRV.

BERA – baseline ecological risk assessment
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
FFS – focused feasibility study
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
ne – not evaluated
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PAH – polycyclic aromatic hydrocarbon
PAR – pathways analysis report
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
SSD – species sensitivity distribution
TEF – toxic equivalency factor
TEQ – toxic equivalent
TRV – toxicity reference value
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
USEPA – US Environmental Protection Agency

4.2 EGG TISSUE ASSESSMENT

Table 4-9 presents the COPECs that were identified by the BERA based on estimated piscivorous bird (great blue heron and belted kingfisher) egg tissue concentrations. These COPECs were evaluated by comparing modeled bird egg tissue concentrations to bird egg tissue TRVs.

Table 4-9. Bird egg COPECs

COPEC	
Metals	
Methylmercury/mercury	
PCBs	
Total PCBs	PCB TEQ - bird
PCDDs/PCDFs	
PCDD/PCDF TEQ - bird	Total TEQ - bird
Pesticides	
Total DDx	Dieldrin

Note: COPECs are those COIs for which the maximum concentration exceeded its TSV.

COI – chemical of interest
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TSV – toxicity screening value

4.2.1 Exposure

Concentrations in bird eggs were estimated using the following equation:

$$EPC_{egg} = EPC_{prey} \times BMF \qquad \textbf{Equation 4-2}$$

Where:

EPC_{egg} = exposure point concentration in bird egg tissue(s) (mg/kg ww)
EPC_{prey} = exposure point concentration in prey tissue (mg/kg ww)
BMF = biomagnification factor

The prey compositions for belted kingfisher and great blue heron were consistent with the prey composition scenarios used for the dietary assessment (Table 4-3), and all three exposure areas (RM 8.3 to RM 17.4, RM 8.3 to RM 14.7, and RM 14.7 to RM 17.4) were evaluated. As discussed in the BERA, two sets of biomagnification factors (BMFs) were used, one based on a review of the literature and one based on USEPA recommendations. BMFs for the COPECs are presented in Table 4-10; the derivation of BMFs and associated uncertainties are discussed in detail in the main text of the BERA.

Table 4-10. Selected bird egg BMFs

COPEC	Range of BMFs					
	Species-specific BMF[a]			Alternative BMFs[b]		
	BMF	Species	Source	BMF Min.	BMF Max.	BMF Geometric Mean
Great blue heron						
Mercury	1.8	bald eagle	geomean of literature-based values presented in the BERA	1	2.8	1.8
Total PCBs	5[c]	great blue heron	Straub et al. (2007)	5	113	19
PCB TEQ - bird	7[d]	great blue heron	Thomas and Anthony (1999)	4.3	21	12
PCDD/PCDF TEQ - bird						
Total TEQ - bird						
Total DDx	20	great blue heron	Thomas and Anthony (1999)	20	141	46
Dieldrin	6.9	multiple	geomean of literature-based values presented in the BERA	6.7	7.1	6.9
Belted kingfisher						
Mercury	1.8	bald eagle	geomean of values in Table 8-24	1	2.8	1.8
Total PCBs	14[c]	belted kingfisher	Seston et al. (2012)	5	113	19
PCB TEQ - bird	4.3[e]	belted kingfisher		4.3	21	12
PCDD/PCDF TEQ - bird						
Total TEQ - bird						
Total DDx	46	multiple	geomean of literature-based values presented in the BERA	20	141	46
Dieldrin	6.9	multiple	geomean of literature-based values presented in the BERA	6.7	7.1	6.9

[a] Species-specific BMFs were derived based on process identified in the main text of the BERA.

[b] BMFs were derived based on process identified by USEPA (2015b), USEPA (2015c), and USEPA (2016e).

[c] Average BMF calculated from data in literature from two sampling years.

[d] Geometric mean BMF calculated from data in literature from multiple geographic areas.

[e] A BMF based on lipid-normalized egg and prey PCB 118 concentrations was reported in the literature (1.7 for 2,3,7,8-TCDD and up to 5.4 for individual PCB congeners). A BMF based on wet weight egg and prey concentrations was derived assuming 2.4% lipids in belted kingfisher prey and an egg lipid of 6%; see the main text of the BERA for additional details.

BERA – baseline ecological risk assessment
BMF – biomagnification factor
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
PCB – polychlorinated biphenyl
PCDD – pentachlorodibenzo-*p*-dioxin
PCDF – pentachlorodibenzofuran
TCDD – tetrachlorodibenzo-*p*-dioxin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
USEPA – US Environmental Protection Agency

The estimated egg tissue concentrations for COPECs in the two exposure diet scenarios are presented in Table 4-11.

Table 4-11. Modeled LPRSA bird egg tissue concentrations

COPEC and Diet Scenario	Exposure Area	Egg Concentration							
		Belted Kingfisher				Great Blue Heron			
		Range of BMFs				Range of BMFs			
		Species-specific BMF[a]	Alternative BMFs[b]			Species-specific BMF[a]	Alternative BMFs[b]		
			BMF Min.	BMF Max.	BMF Geomean		BMF Min.	BMF Max.	BMF Geomean
Mercury (µg/kg)									
1	RM 8.3–RM 17.4	98.9	55.0	165	98.9	88.2	49.0	147	88.2
	RM 8.3–RM 14.7	98.9	55.0	165	98.9	91.8	51.0	153	91.8
	RM 14.7–RM 17.4	98.9	55.0	165	98.9	86.4	48.0	144	86.4
2	RM 8.3–RM 17.4	105	58.2	175	105	273	152	455	273
	RM 8.3–RM 14.7	108	60.2	181	108	309	171	514	309
	RM 14.7–RM 17.4	99.8	55.4	166	99.8	288	160	481	288
Methylmercury (µg/kg)									
1	RM 8.3–RM 17.4	65.8	36.6	110	65.8	48.6	27.0	81.0	48.6
	RM 8.3–RM 14.7	65.8	36.6	110	65.8	48.6	27.0	81.0	48.6
	RM 14.7–RM 17.4	65.8	36.6	110	65.8	52.2	29.0	87.0	52.2
2	RM 8.3–RM 17.4	67.0	37.2	112	67.0	261	145	435	261
	RM 8.3–RM 14.7	67.4	37.5	112	67.4	309	171	514	309
	RM 14.7–RM 17.4	68.0	37.8	113	68.0	261	145	435	261

COPEC and Diet Scenario	Exposure Area	Egg Concentration							
		Belted Kingfisher				Great Blue Heron			
		Range of BMFs				Range of BMFs			
		Species-specific BMF[a]	Alternative BMFs[b]			Species-specific BMF[a]	Alternative BMFs[b]		
			BMF Min.	BMF Max.	BMF Geomean		BMF Min.	BMF Max.	BMF Geomean
Total PCBs (µg/kg)									
1	RM 8.3–RM 17.4	9,058	3,235	73,111	12,293	2,700	2,700	61,020	10,260
	RM 8.3–RM 14.7	9,058	3,235	73,111	12,293	2,950	2,950	66,670	11,210
	RM 14.7–RM 17.4	9,058	3,235	73,111	12,293	2,400	2,400	54,240	9,120
2	RM 8.3–RM 17.4	8,433	3,012	68,066	11,445	8,809	8,809	199,083	33,474
	RM 8.3–RM 14.7	9,881	3,529	79,750	13,409	13,797	13,797	311,801	52,427
	RM 14.7–RM 17.4	7,517	2,685	60,675	10,202	6,218	6,218	140,527	23,628
PCB TEQ-Bird (ng/kg)									
1	RM 8.3–RM 17.4	306	306	1,493	853	469	288	1,407	804
	RM 8.3–RM 14.7	306	306	1,493	853	441	271	1,323	756
	RM 14.7–RM 17.4	306	306	1,493	853	616	378	1,848	1,056
2	RM 8.3–RM 17.4	333	333	1,624	928	853	524	2,558	1,461
	RM 8.3–RM 14.7	325	325	1,586	906	1,298	797	3,894	2,225
	RM 14.7–RM 17.4	347	347	1,695	969	628	386	1,883	1,076

COPEC and Diet Scenario	Exposure Area	Egg Concentration							
		Belted Kingfisher				Great Blue Heron			
		Range of BMFs				Range of BMFs			
		Species-specific BMF[a]	Alternative BMFs[b]			Species-specific BMF[a]	Alternative BMFs[b]		
			BMF Min.	BMF Max.	BMF Geomean		BMF Min.	BMF Max.	BMF Geomean
PCDD/PCDF TEQ-Bird (ng/kg)									
1	RM 8.3–RM 17.4	442	442	2,159	1,234	399	245	1,197	684
	RM 8.3–RM 14.7	442	442	2,159	1,234	504	310	1,512	864
	RM 14.7–RM 17.4	442	442	2,159	1,234	161	99	483	276
2	RM 8.3–RM 17.4	305	305	1,489	851	754	463	2,261	1,292
	RM 8.3–RM 14.7	358	358	1,750	1,000	1,108	681	3,325	1,900
	RM 14.7–RM 17.4	247	247	1,208	690	290	178	871	498
Total TEQ-Bird (ng/kg)									
1	RM 8.3–RM 17.4	705	705	3,444	1,968	840	516	2,520	1,440
	RM 8.3–RM 14.7	705	705	3,444	1,968	910	559	2,730	1,560
	RM 14.7–RM 17.4	705	705	3,444	1,968	700	430	2,100	1,200
2	RM 8.3–RM 17.4	596	596	2,912	1,664	1,637	1,005	4,910	2,806
	RM 8.3–RM 14.7	659	659	3,220	1,840	2,400	1,474	7,201	4,115
	RM 14.7–RM 17.4	555	555	2,710	1,549	881	541	2,642	1,510
Total DDx (µg/kg)									
1	RM 8.3–RM 17.4	3,540	1,539	10,850	3,540	1,280	1,280	9,024	2,944
	RM 8.3–RM 14.7	3,540	1,539	10,850	3,540	1,420	1,420	10,011	3,266
	RM 14.7–RM 17.4	3,540	1,539	10,850	3,540	1,120	1,120	7,896	2,576
2	RM 8.3–RM 17.4	3,231	1,405	9,903	3,231	3,338	3,338	23,530	7,676
	RM 8.3–RM 14.7	3,534	1,537	10,832	3,534	4,205	4,205	29,648	9,672
	RM 14.7–RM 17.4	2,998	1,304	9,190	2,998	3,534	3,534	24,918	8,129

COPEC and Diet Scenario	Exposure Area	Egg Concentration							
		Belted Kingfisher				Great Blue Heron			
		Range of BMFs				Range of BMFs			
		Species-specific BMF[a]	Alternative BMFs[b]			Species-specific BMF[a]	Alternative BMFs[b]		
			BMF Min.	BMF Max.	BMF Geomean		BMF Min.	BMF Max.	BMF Geomean
Dieldrin (µg/kg)									
1	RM 8.3–RM 17.4	172	167	177	172	117	114	121	117
	RM 8.3–RM 14.7	172	167	177	172	131	127	135	131
	RM 14.7–RM 17.4	172	167	177	172	117	114	121	117
2	RM 8.3–RM 17.4	131	127	135	131	254	246	261	254
	RM 8.3–RM 14.7	136	132	140	136	221	215	227	221
	RM 14.7–RM 17.4	133	129	136	133	416	404	428	416

[a] BMFs were derived based on process identified in the main text of the BERA.

[b] BMFs were derived based on processes identified by USEPA (2015b), USEPA (2015c), and USEPA (2016e); egg concentrations calculated based on these BMFs.

BERA – baseline ecological risk assessment
BMF – biomagnification factor
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
LPRSA – Lower Passaic River Study Area
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
USEPA – US Environmental Protection Agency

4.2.2 Effects

As described in the BERA, two sets of bird egg tissue TRVs were used for the derivation of HQs. The first set of TRVs was based on previous documents developed by USEPA Region 2 for the LPRSA:

- USEPA's LPR restoration project FFS (Louis Berger et al. 2014)
- USEPA's first draft of the LPRSA FFS (Malcolm Pirnie 2007)

The second set of TRVs was derived based on a review of the general toxicological literature. Both NOAEL and LOAEL TRVs were derived. Table 4-12 presents the bird egg tissue TRVs for the COPECs. Details and uncertainty associated with both sets of TRVs are provided in the main text of the BERA.

Table 4-12. Bird egg tissue TRVs

COPEC	Units (ww)	Range of TRVs[a]								
		TRV-A[b]				TRV-B[c]				
		NOAEL	LOAEL	Endpoint	Source	NOAEL	LOAEL	Endpoint	Source	Document
Methylmercury/ mercury	µg/kg	180[d]	1,800	reproduction (mallard)	geomean of LOAELs reported for 4 studies	no value[e]	no value[e]	na	na	na
TEQ - bird	ng/kg	25[d]	250	reproduction (5 species)	Nosek et al. (1992) (NOAEL), SSD-derived 5th percentile value (LOAEL)	59	150	reproduction (various species)	SSD-derived 5th percentile value USEPA (2003b)	revised FFS (Louis Berger et al. 2014)
Total PCBs	µg/kg	1,600[d]	16,000	reproduction (ringed turtle dove)	Peakall et al. (1972); Peakall and Peakall (1973)	700	1,300	chicken (hatchability)	Chapman (2003)	revised FFS (Louis Berger et al. 2014)
Dieldrin	µg/kg	300[d]	3,000	reproduction (pheasant)	Genelly and Rudd (1956)	200	8,100	reproduction (barn own)	Mendenhall et al. (1983)	revised FFS (Louis Berger et al. 2014)
Total DDx	µg/kg	410[d]	4,100	reproduction (7 species)	Custer et al. (1999; 1983) (NOAEL), SSD-derived 5th percentile value (LOAEL)	500	3,000	reproduction (brown pelican)	Blus (1984)	revised FFS (Louis Berger et al. 2014)

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] TRVs were derived from the primary literature review based on process identified in the main text of the BERA.

[c] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007).

[d] NOAEL extrapolated from LOAEL using an uncertainty factor of 10.

[e] No TRVs were selected by USEPA in the revised FFS (Louis Berger et al. 2014) or draft FFS (Malcolm Pirnie 2007).

BERA – baseline ecological risk assessment
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
FFS – focused feasibility study
LOAEL – lowest-observed-adverse-effect level
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
na – not available
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PCB – polychlorinated biphenyl
SSD – species sensitivity distribution
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value
USEPA – US Environmental Protection Agency
ww – wet weight

4.2.3 HQ Results

Tables 4-13a and 4-13b presents the bird egg tissue HQs for the COPECs in the three exposure areas evaluated: RM 8.3 to RM 17.4, RM 8.3 to RM 14.7, and RM 14.7 to RM 17.4.

Table 4-13a. Bird egg tissue LOAEL HQs

COPEC	Diet Scenario	Area	Range of LOAEL HQs[a] for Belted Kingfisher				Range of LOAEL HQs[a] for Great Blue Heron			
			HQ Based on TRV-A[b]	HQ Based on TRV-B[c]			HQ Based on TRV-A[b]	HQ Based on TRV-B[c]		
			Species-specific BMF[d]	Alternative BMF[e]			Species-specific BMF[d]	Alternative BMF[e]		
				BMF Min.	BMF Max.	BMF Geomean		BMF Min.	BMF Max.	BMF Geomean
Mercury	1[f]	RM 8.3–RM 17.4	0.055	na	na	na	0.049	na	na	na
		RM 8.3–RM 14.7	0.055	na	na	na	0.051	na	na	na
		RM 14.7–RM 17.4	0.055	na	na	na	0.048	na	na	na
	2[g]	RM 8.3–RM 17.4	0.058	na	na	na	0.15	na	na	na
		RM 8.3–RM 14.7	0.060	na	na	na	0.17	na	na	na
		RM 14.7–RM 17.4	0.055	na	na	na	0.16	na	na	na
Methylmercury	1[f]	RM 8.3–RM 17.4	0.037	na	na	na	0.027	na	na	na
		RM 8.3–RM 14.7	0.037	na	na	na	0.027	na	na	na
		RM 14.7–RM 17.4	0.037	na	na	na	0.029	na	na	na
	2[g]	RM 8.3–RM 17.4	0.037	na	na	na	0.14	na	na	na
		RM 8.3–RM 14.7	0.037	na	na	na	0.17	na	na	na
		RM 14.7–RM 17.4	0.038	na	na	na	0.15	na	na	na
Total PCBs	1[f]	RM 8.3–RM 17.4	0.57	**2.5**	**56**	**9.5**	0.17	**2.1**	**47**	**7.9**
		RM 8.3–RM 14.7	0.57	**2.5**	**56**	**9.5**	0.18	**2.3**	**51**	**8.6**
		RM 14.7–RM 17.4	0.57	**2.5**	**56**	**9.5**	0.15	**1.8**	**42**	**7.0**
	2[g]	RM 8.3–RM 17.4	0.53	**2.3**	**52**	**8.8**	0.55	**6.8**	**153**	**26**
		RM 8.3–RM 14.7	0.62	**2.7**	**61**	**10**	0.86	**11**	**240**	**40**
		RM 14.7–RM 17.4	0.47	**2.1**	**47**	**7.8**	0.39	**4.8**	**108**	**18**

Table 4-13a. Bird egg tissue LOAEL HQs

COPEC	Diet Scenario	Area	Range of LOAEL HQs[a] for Belted Kingfisher				Range of LOAEL HQs[a] for Great Blue Heron			
			HQ Based on TRV-A[b]	HQ Based on TRV-B[c]			HQ Based on TRV-A[b]	HQ Based on TRV-B[c]		
			Species-specific BMF[d]	Alternative BMF[e]			Species-specific BMF[d]	Alternative BMF[e]		
				BMF Min.	BMF Max.	BMF Geomean		BMF Min.	BMF Max.	BMF Geomean
PCB TEQ - bird	1[f]	RM 8.3–RM 17.4	1.2	2.0	10	5.7	1.9	1.9	9.4	5.4
		RM 8.3–RM 14.7	1.2	2.0	10	5.7	1.8	1.8	8.8	5.0
		RM 14.7–RM 17.4	1.2	2.0	10	5.7	2.5	2.5	12	7.0
	2[g]	RM 8.3–RM 17.4	1.3	2.2	11	6.2	3.4	3.5	17	9.7
		RM 8.3–RM 14.7	1.3	2.2	11	6.0	5.2	5.3	26	15
		RM 14.7–RM 17.4	1.4	2.3	11	6.5	2.5	2.6	13	7.2
PCDD/PCDF TEQ - bird	1[f]	RM 8.3–RM 17.4	1.8	2.9	14	8.2	1.6	1.6	8.0	4.6
		RM 8.3–RM 14.7	1.8	2.9	14	8.2	2.0	2.1	10	5.8
		RM 14.7–RM 17.4	1.8	2.9	14	8.2	0.64	0.66	3.2	1.8
	2[g]	RM 8.3–RM 17.4	1.2	2.0	10	5.7	3.0	3.1	15	8.6
		RM 8.3–RM 14.7	1.4	2.4	12	6.7	4.4	4.5	22	13
		RM 14.7–RM 17.4	0.99	1.6	8.1	4.6	1.2	1.2	5.8	3.3
Total TEQ - bird	1[f]	RM 8.3–RM 17.4	2.8	4.7	23	13	3.4	3.4	17	9.6
		RM 8.3–RM 14.7	2.8	4.7	23	13	3.6	3.7	18	10
		RM 14.7–RM 17.4	2.8	4.7	23	13	2.8	2.9	14	8.0
	2[g]	RM 8.3–RM 17.4	2.4	4.0	19	11	6.5	6.7	33	19
		RM 8.3–RM 14.7	2.6	4.4	21	12	9.6	9.8	48	27
		RM 14.7–RM 17.4	2.2	3.7	18	10	3.5	3.6	18	10

Table 4-13a. Bird egg tissue LOAEL HQs

COPEC	Diet Scenario	Area	Range of LOAEL HQs[a] for Belted Kingfisher				Range of LOAEL HQs[a] for Great Blue Heron			
			HQ Based on TRV-A[b]	HQ Based on TRV-B[c]			HQ Based on TRV-A[b]	HQ Based on TRV-B[c]		
			Species-specific BMF[d]	Alternative BMF[e]			Species-specific BMF[d]	Alternative BMF[e]		
				BMF Min.	BMF Max.	BMF Geomean		BMF Min.	BMF Max.	BMF Geomean
Total DDx	1[f]	RM 8.3–RM 17.4	0.86	0.51	**3.6**	**1.2**	0.31	0.43	**3.0**	0.98
		RM 8.3–RM 14.7	0.86	0.51	**3.6**	**1.2**	0.35	0.47	**3.3**	**1.1**
		RM 14.7–RM 17.4	0.86	0.5	**3.6**	**1.2**	0.27	0.37	**2.6**	0.86
	2[g]	RM 8.3–RM 17.4	0.79	0.47	**3.3**	**1.1**	0.81	**1.1**	**7.8**	**2.6**
		RM 8.3–RM 14.7	0.86	0.51	**3.6**	**1.2**	**1.0**	**1.4**	**9.9**	**3.2**
		RM 14.7–RM 17.4	0.73	0.43	**3.1**	**1.0**	0.86	**1.2**	**8.3**	**2.7**
Dieldrin	1[f]	RM 8.3–RM 17.4	0.057	0.021	0.022	0.021	0.039	0.014	0.015	0.014
		RM 8.3–RM 14.7	0.057	0.021	0.022	0.021	0.044	0.016	0.017	0.016
		RM 14.7–RM 17.4	0.057	0.021	0.022	0.021	0.039	0.014	0.015	0.014
	2[g]	RM 8.3–RM 17.4	0.044	0.016	0.017	0.016	0.085	0.030	0.032	0.031
		RM 8.3–RM 14.7	0.045	0.016	0.017	0.017	0.074	0.027	0.028	0.027
		RM 14.7–RM 17.4	0.044	0.016	0.017	0.016	0.14	0.050	0.053	0.051

Bold identifies HQs ≥ 1.0.

Shaded cells identify HQs ≥ 1.0 based on LOAEL TRVs.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] TRVs were derived from the primary literature based on the process identified in the main text of the BERA.

[c] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007).

[d] BMFs were derived based on the process identified in the main text of the BERA.

[e] BMFs were based on the process identified by USEPA (2015b), USEPA (2015c), and USEPA (2016e).

[f] Diet Scenario 1 includes 100% 0–13-cm fish for great blue heron and 85% 0–9-cm fish and 15% blue crab for belted kingfisher.

[g] Diet Scenario 2 for great blue heron includes 17% 0–13-cm fish, 29% 13–18-cm fish, 40% 18–30-cm fish, and 14% > 30-cm fish. Diet Scenario 2 for belted kingfisher includes 15% blue crab, 31.5% 0–9-cm fish, 51% 9–13-cm fish, and 2.5% 13–18-cm fish.

BERA – baseline ecological risk assessment
BMF – biomagnification factor
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
FFS – focused feasibility study
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
na – not applicable (no TRV available)
RM – river mile
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value
USEPA – US Environmental Protection Agency

Table 4-13b. Bird egg tissue NOAEL HQs

COPEC	Diet Scenario	Area	Range of NOAEL HQs[a] for Belted Kingfisher				Range of NOAEL HQs[a] for Great Blue Heron			
			HQ Based on TRV-A[b]	HQ Based on TRV-B[c]			HQ Based on TRV-A[b]	HQ Based on TRV-B[c]		
			Species-specific BMF[d]	Alternative BMF[e]			Species-specific BMF[d]	Alternative BMF[e]		
				BMF Min.	BMF Max.	BMF Geomean		BMF Min.	BMF Max.	BMF Geomean
Mercury	1[f]	RM 8.3–RM 17.4	0.55	na	na	na	0.49	na	na	na
		RM 8.3–RM 14.7	0.55	na	na	na	0.51	na	na	na
		RM 14.7–RM 17.4	0.55	na	na	na	0.48	na	na	na
	2[g]	RM 8.3–RM 17.4	0.58	na	na	na	**1.5**	na	na	na
		RM 8.3–RM 14.7	0.60	na	na	na	**1.7**	na	na	na
		RM 14.7–RM 17.4	0.55	na	na	na	**1.6**	na	na	na
Methylmercury	1[f]	RM 8.3–RM 17.4	0.37	na	na	na	0.27	na	na	na
		RM 8.3–RM 14.7	0.37	na	na	na	0.27	na	na	na
		RM 14.7–RM 17.4	0.37	na	na	na	0.29	na	na	na
	2[g]	RM 8.3–RM 17.4	0.37	na	na	na	**1.4**	na	na	na
		RM 8.3–RM 14.7	0.37	na	na	na	**1.7**	na	na	na
		RM 14.7–RM 17.4	0.38	na	na	na	**1.5**	na	na	na
Total PCBs	1[f]	RM 8.3–RM 17.4	**5.7**	**4.6**	**104**	**18**	**1.7**	**3.9**	**87**	**15**
		RM 8.3–RM 14.7	**5.7**	**4.6**	**104**	**18**	**1.8**	**4.2**	**95**	**16**
		RM 14.7–RM 17.4	**5.7**	**4.6**	**104**	**18**	**1.5**	**3.4**	**77**	**13**
	2[g]	RM 8.3–RM 17.4	**5.3**	**4.3**	**97**	**16**	**5.5**	**13**	**284**	**48**
		RM 8.3–RM 14.7	**6.2**	**5.0**	**114**	**19**	**8.6**	**20**	**445**	**75**
		RM 14.7–RM 17.4	**4.7**	**3.8**	**87**	**15**	**3.9**	**8.9**	**201**	**34**

Table 4-13b. Bird egg tissue NOAEL HQs

COPEC	Diet Scenario	Area	Range of NOAEL HQs[a] for Belted Kingfisher				Range of NOAEL HQs[a] for Great Blue Heron			
			HQ Based on TRV-A[b]	HQ Based on TRV-B[c]			HQ Based on TRV-A[b]	HQ Based on TRV-B[c]		
			Species-specific BMF[d]	Alternative BMF[e]			Species-specific BMF[d]	Alternative BMF[e]		
				BMF Min.	BMF Max.	BMF Geomean		BMF Min.	BMF Max.	BMF Geomean
PCB TEQ - bird	1[f]	RM 8.3–RM 17.4	12	5.2	25	14	19	4.9	24	14
		RM 8.3–RM 14.7	12	5.2	25	14	18	4.6	22	13
		RM 14.7–RM 17.4	12	5.2	25	14	25	6.4	31	18
	2[g]	RM 8.3–RM 17.4	13	5.6	28	16	34	8.9	43	25
		RM 8.3–RM 14.7	13	5.5	27	15	52	14	66	38
		RM 14.7–RM 17.4	14	5.9	29	16	25	6.5	32	18
PCDD/PCDF TEQ - bird	1[e]	RM 8.3–RM 17.4	18	7.5	37	21	16	4.2	20	12
		RM 8.3–RM 14.7	18	7.5	37	21	20	5.2	26	15
		RM 14.7–RM 17.4	18	7.5	37	21	6.4	1.7	8.2	4.7
	2[f]	RM 8.3–RM 17.4	12	5.2	25	14	30	7.8	38	22
		RM 8.3–RM 14.7	14	6.1	30	17	44	12	56	32
		RM 14.7–RM 17.4	9.9	4.2	20	12	12	3.0	15	8.4
Total TEQ - bird	1[f]	RM 8.3–RM 17.4	28	12	58	33	34	8.7	43	24
		RM 8.3–RM 14.7	28	12	58	33	36	9.5	46	26
		RM 14.7–RM 17.4	28	12	58	33	28	7.3	36	20
	2[g]	RM 8.3–RM 17.4	24	10	49	28	65	17	83	48
		RM 8.3–RM 14.7	26	11	55	31	96	25	122	70
		RM 14.7–RM 17.4	22	9.4	46	26	35	9.2	45	26

Table 4-13b. Bird egg tissue NOAEL HQs

COPEC	Diet Scenario	Area	Range of NOAEL HQs[a] for Belted Kingfisher				Range of NOAEL HQs[a] for Great Blue Heron			
			HQ Based on TRV-A[b]	HQ Based on TRV-B[c]			HQ Based on TRV-A[b]	HQ Based on TRV-B[c]		
			Species-specific BMF[d]	Alternative BMF[e]			Species-specific BMF[d]	Alternative BMF[e]		
				BMF Min.	BMF Max.	BMF Geomean		BMF Min.	BMF Max.	BMF Geomean
Total DDx	1[f]	RM 8.3–RM 17.4	**8.6**	**3.1**	**22**	**7.1**	**3.1**	**2.6**	**18**	**5.9**
		RM 8.3–RM 14.7	**8.6**	**3.1**	**22**	**7.1**	**3.5**	**2.8**	**20**	**6.5**
		RM 14.7–RM 17.4	**8.6**	**3.1**	**22**	**7.1**	**2.7**	**2.2**	**16**	**5.2**
	2[g]	RM 8.3–RM 17.4	**7.9**	**2.8**	**20**	**6.5**	**8.1**	**6.7**	**47**	**15**
		RM 8.3–RM 14.7	**8.6**	**3.1**	**22**	**7.1**	**10**	**8.4**	**59**	**19**
		RM 14.7–RM 17.4	**7.3**	**2.6**	**18**	**6.0**	**8.6**	**7.1**	**50**	**16**
Dieldrin	1[f]	RM 8.3–RM 17.4	0.57	0.83	0.88	0.86	0.39	0.57	0.60	0.59
		RM 8.3–RM 14.7	0.57	0.83	0.88	0.86	0.44	0.64	0.67	0.66
		RM 14.7–RM 17.4	0.57	0.83	0.88	0.86	0.39	0.57	0.60	0.59
	2[g]	RM 8.3–RM 17.4	0.44	0.64	0.67	0.65	0.85	**1.2**	**1.3**	**1.3**
		RM 8.3–RM 14.7	0.45	0.66	0.70	0.68	0.74	**1.1**	**1.1**	**1.1**
		RM 14.7–RM 17.4	0.44	0.64	0.68	0.66	**1.4**	**2.0**	**2.1**	**2.1**

Bold identifies HQs ≥ 1.0.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] TRVs were derived from the primary literature based on the process identified in the main text of the BERA.

[c] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007).

[d] BMFs were derived based on the process identified in the main text of the BERA.

[e] BMFs were based on the process identified by USEPA (2015b), USEPA (2015c), and USEPA (2016e).

[f] Diet Scenario 1 includes 100% 0–13-cm fish for great blue heron and 85% 0–9-cm fish and 15% blue crab for belted kingfisher.

[g] Diet Scenario 2 for great blue heron includes 17% 0–13-cm fish, 29% 13–18-cm fish, 40% 18–30-cm fish, and 14% > 30-cm fish. Diet Scenario 2 for belted kingfisher includes 15% blue crab, 31.5% 0–9-cm fish, 51% 9–13-cm fish, and 2.5% 13–18-cm fish.

BERA – baseline ecological risk assessment
BMF – biomagnification factor
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
FFS – focused feasibility study
HQ – hazard quotient
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
na – not applicable (no TRV available)
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no–observed–adverse–effect level
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value
USEPA – US Environmental Protection Agency

4.2.4 Key uncertainties

The uncertainties associated with the bird egg risk characterization are discussed in the BERA.

4.2.5 Summary

Seven COPECs were evaluated based on modeled bird egg concentrations. LOAEL HQs were ≥ 1.0 for total PCBs, PCB TEQ - bird, PCDD/PCDF TEQ - bird, total TEQ - bird, and DDx in at least one TRV and BMF scenario. Table 4-14 provides the range of LOAEL HQs for all exposure area scenarios, using a range of TRVs and BMFs for the COPECs with LOAEL HQs ≥ 1.

Bird egg COPECs with LOAEL HQs > 1.0 based on this upper 9-mile evaluation were the same as those in the 17.4-mile LPRSA BERA. HQs based on this upper 9-mile evaluation were slightly lower (same order of magnitude, but lower) than those calculated for the entire LPRSA in the BERA.

Table 4-14. Summary of bird egg tissue LOAEL HQs

COPEC[b]	Range of LOAEL HQs[a]								Key Uncertainties
	Great Blue Heron				Belted Kingfisher				
	HQ Based on TRV-A[c]	HQ Based on TRV-B[d]			HQ Based on TRV-A[c]	HQ Based on TRV-B[d]			
	Species-specific BMF[e]	Alternative BMF[f]			Species-specific BMF[e]	Alternative BMF[f]			
		BMF Min.	BMF Max.	BMF Geomean		BMF Min.	BMF Max.	BMF Geomean	
Total PCBs	0.15–0.86	**1.8–11**	**42–240**	**7.0–40**	0.47–0.62	**2.1–2.7**	**47–61**	**7.8–10**	• TRV-A based on non-chicken reproduction and limited dataset (two studies) • TRV-B based on interpolated value from chicken hatchability data based on a 25% decrease relative to control; TRV-B approximately 3 times less than measured LOAEL (for which hatchability was reduced by 55%) • Uncertainty associated with use of literature-based BMFs used to predict bird egg concentrations; species-specific BMF for heron and kingfisher based on heron and kingfisher data, respectively, for comparison to TRV-A, and range of BMFs evaluated for comparison to TRV-B
PCB TEQ - bird	**1.8–5.2**	**1.8–5.3**	**8.8–26**	**5.0–15**	**1.2–1.4**	**2.0–2.3**	**10–11**	**5.7–6.5**	• TRV-A based on SSD with no chicken reproduction data (SSD not expected to have changed significantly with inclusion of chicken data) and less than lowest measured LOAEL • TRV-B based on SSD inclusive of chicken reproduction data • TEQ sensitivities vary with Ah receptor; chicken in high-sensitivity group and great blue heron in low-sensitivity group • Species-specific BMF for heron and kingfisher based on heron and kingfisher data, respectively
PCDD/ PCDF TEQ - bird	0.64–**4.4**	0.66–**4.5**	**3.2–22**	**1.8–13**	0.99–**1.8**	**1.6–2.9**	**8.1–14**	**4.6–8.2**	
Total TEQ - bird	**2.8–9.6**	**2.9–9.8**	**14–48**	**8.0–27**	**2.2–2.8**	**3.7–4.7**	**18–23**	**10–13**	

Table 4-14. Summary of bird egg tissue LOAEL HQs

COPEC[b]	Range of LOAEL HQs[a]								Key Uncertainties
	Great Blue Heron				Belted Kingfisher				
	HQ Based on TRV-A[c]	HQ Based on TRV-B[d]			HQ Based on TRV-A[c]	HQ Based on TRV-B[d]			
	Species-specific BMF[e]	Alternative BMF[f]			Species-specific BMF[e]	Alternative BMF[f]			
		BMF Min.	BMF Max.	BMF Geomean		BMF Min.	BMF Max.	BMF Geomean	
Total DDx	0.27–**1.0**	0.37–**1.4**	**2.6–9.9**	0.86–**3.2**	0.73–0.86	0.43–0.51	**3.1–3.6**	**1.0–1.2**	• TRV-A based on SSD not inclusive of chicken reproduction data • TRV-B based on SSD inclusive of chicken reproduction data • Uncertainty associated with use of literature-based BMFs used to predict bird egg concentrations; species-specific BMF for heron based on heron data, and species-specific BMF for kingfisher based on geomean of 5 species for comparison to TRV-A and range of BMFs evaluated for comparison to TRV-B

Bold identifies HQs ≥ 1.0.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] Only COPECs with HQs ≥ 1.0 based on a LOAEL TRV are included in the table.

[c] TRVs were derived from the primary literature based on the process identified in the main text of the BERA.

[d] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) or first draft of the LPR restoration project FFS (Malcolm Pirnie 2007).

[e] BMFs were derived based on process identified in the main text of the BERA.

[f] BMFs were derived based on the process identified by USEPA (2015b), USEPA (2015c), and USEPA (2016e).

Ah – aryl hydrocarbon
BERA – baseline ecological risk assessment
BMF – biomagnification factor
COPEC – chemical of potential ecological
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
HQ – hazard quotient
FFS – focused feasibility study
LOAEL – lowest-observed-adverse-effect level
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
SSD – species sensitivity distribution
TEQ – toxic equivalent
TRV – toxicity reference value
USEPA – US Environmental Protection Agency
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)

4.3 SUMMARY OF RESULTS

The potential for risk to three bird species (spotted sandpiper, great blue heron, and belted kingfisher) was characterized using LPRSA tissue, sediment, and water chemistry to estimate dietary doses. In addition, risks to great blue heron and belted kingfisher were characterized using chemical concentrations in bird egg tissue as a secondary LOE. Dietary doses and modeled bird egg concentrations were compared to a range of TRVs to derive risk estimates (HQs) in the risk characterization.

Bird species-COPEC pairs with effect-level HQs ≥ 1.0 (based on a LOAEL TRV) in at least one LOE were identified as preliminary COCs (listed in Table 4-15). Based on these criteria, the following preliminary COCs for the upper 9 miles of the LPRSA were identified:

- **Spotted sandpiper:** copper, lead, total HPAHs, PCB TEQ - bird, PCDD/PCDF TEQ - bird, and total TEQ - bird were identified as preliminary COCs based on the dietary LOE.
- **Great blue heron:** methylmercury, PCB TEQ - bird, PCDD/PCDF TEQ - bird, total TEQ - bird, and total DDx were identified as preliminary COCs based on the dietary LOE. Total PCBs, PCB TEQ - bird, PCDD/PCDF TEQ - bird, total TEQ - bird, and total DDx were identified as preliminary COCs based on the egg tissue LOE.
- **Belted kingfisher:** copper, lead, PCB TEQ - bird, PCDD/PCDF TEQ - bird, total TEQ - bird, and total DDx were identified as preliminary COCs based on the dietary LOE; PCDD/PCDF TEQ - bird, total TEQ - bird, total PCBs, PCB TEQ - bird, and total DDx were identified as preliminary COCs based on the egg tissue LOE.

Table 4-15. Summary of preliminary COCs for birds for the upper 9 miles of the LPRSA

Preliminary COC and Species[b]	Range of LOAEL HQs[a]					
	HQ based on TRV-A[c]		HQ based on TRV-B[d]			
		Bird Egg Tissue LOE		Bird Egg Tissue LOE Alternative BMFs[f]		
	Dietary Dose LOE	Species-specific BMF[e]	Dietary Dose LOE	Min.	Max.	Geomean
Copper						
Spotted sandpiper	0.44–0.55	na	**1.8–2.2**	na	na	na
Great blue heron	0.052–0.093		0.21–0.38			
Belted kingfisher	0.25–0.26		**1.0–1.1**			
Lead						
Spotted sandpiper	0.66–0.71	na	**9.7–11**	na	na	na
Great blue heron	0.024–0.038		0.36–0.55			
Belted kingfisher	0.084–0.090		**1.2–1.3**			
Methylmercury						
Spotted sandpiper	0.010–0.013	na	0.028–0.047	na	na	na
Great blue heron	0.049–0.31	0.037–0.038	0.18–**1.1**			
Belted kingfisher	0.19–0.20	0.027–0.17	0.71–0.73			
Total HPAHs						
Spotted sandpiper	na	na	**4.8–5.6**	na	na	na
Great blue heron			0.21–0.42			
Belted kingfisher			0.66–0.85			
Total PCBs						
Spotted sandpiper	0.065–0.34	na	0.17–0.61	na	na	na
Great blue heron	0.075–0.34	0.15–0.86	0.17–0.96	**1.8–11**	**42–240**	**7.0–40**
Belted kingfisher	0.20–0.26	0.47–0.62	0.55–0.72	**2.1–2.7**	**47–61**	**7.8–10**
PCB TEQ - bird						
Spotted sandpiper	0.081–0.42	na	0.40–**2.1**	na	na	na
Great blue heron	0.081–0.23	**1.8–5.2**	0.40–**1.2**	**1.8–5.3**	**8.8–26**	**5.0–15**
Belted kingfisher	0.26–0.29	**1.2–1.4**	**1.3–1.5**	**2.0–2.3**	**10–11**	**5.7–6.5**
PCDD/PCDF TEQ - bird						
Spotted sandpiper	0.014–0.74	na	0.068**–3.7**	na	na	na
Great blue heron	0.029–0.20	0.64**–4.4**	0.14**–1.0**	0.66**–4.5**	**3.2–22**	**1.8–13**
Belted kingfisher	0.21–0.38	0.99–**1.8**	**1.0–1.9**	**1.6–2.9**	**8.1–14**	**4.6–8.2**

Table 4-15. Summary of preliminary COCs for birds for the upper 9 miles of the LPRSA

Preliminary COC and Species[b]	Range of LOAEL HQs[a]					
	HQ based on TRV-A[c]		HQ based on TRV-B[d]			
		Bird Egg Tissue LOE		Bird Egg Tissue LOE		
				Alternative BMFs[f]		
	Dietary Dose LOE	Species-specific BMF[e]	Dietary Dose LOE	Min.	Max.	Geomean
Total TEQ - bird						
Spotted sandpiper	0.096–**1.1**	na	0.48–**5.3**	na	na	na
Great blue heron	0.12–0.43	**2.8–9.6**	0.62**–2.2**	**2.9–9.8**	**14–48**	**8.0–27**
Belted kingfisher	0.46–0.60	**2.2–2.8**	**2.3–3.0**	**3.7–4.7**	**18–23**	**10–13**
Total DDx						
Spotted sandpiper	0.019–0.074	na	0.18–0.69	na	na	na
Great blue heron	0.040–0.15	0.27–**1.0**	0.37**–1.4**	0.37–**1.4**	**2.6–9.9**	0.86–**3.2**
Belted kingfisher	0.13–0.16	0.73–0.86	**1.2–1.5**	0.43–0.51	**3.1–3.6**	**1.0–1.2**

Bold identifies HQs ≥ 1.0.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] Preliminary COCs are those COPECs with HQs ≥ 1.0 based on a LOAEL TRV.

[c] TRVs were derived from the primary literature based on the process identified in the main text of the BERA.

[d] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014), the first draft of the LPR restoration project FFS (Malcolm Pirnie 2007), or USEPA's LPR restoration project PAR (Battelle 2005).

[e] BMFs were derived based on the process identified in the main text of the BERA.

[f] BMFs were based on the process identified by USEPA (2015b), USEPA (2015c), and USEPA (2016e).

BERA – baseline ecological risk assessment
BMF – biomagnification factor
COC – chemical of concern
COPEC – chemical of potential ecological concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
FFS – focused feasibility study
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
LOE – line of evidence
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
na – not applicable (no TRV available)
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo–*p*–dioxin
PCDF – polychlorinated dibenzofuran
TEQ – toxic equivalent
TRV – toxicity reference value
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
USEPA – US Environmental Protection Agency

5 Mammals

The potential for risks to mammals was characterized quantitatively using one LOE:

- **Dietary LOE –** comparison of mammal dietary doses to dietary dose TRVs

This LOE is presented in the following subsection.

5.1 DIETARY ASSESSMENT

Consistent with the BERA, the mammal dietary assessment included the evaluation of the following species:

- Aquatic mammals – mink (*Neovison vison*) and river otter (*Lutra canadensis*)

Table 5-1 presents the COPECs identified for mammals in the BERA based on the dietary LOE. COPECs were evaluated by comparing LPRSA mammal dietary doses to mammal dietary TRVs.

Table 5-1. Mammal dietary COPECs

COPEC	
Metals	
Arsenic	Nickel
Cadmium	Selenium
Copper	Vanadium
Lead	Zinc
Methylmercury/mercury	
PAHs	
Total HPAHs	
PCBs	
Total PCBs	PCB TEQ - mammal
PCDDs/PCDFs	
PCDD/PCDF TEQ - mammal	Total TEQ - mammal
Organochlorine Pesticides	
Dieldrin	

COPEC – chemical of potential ecological concern
HPAH – high-molecular weight polycyclic aromatic hydrocarbon
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
TEQ – toxic equivalent

5.1.1 Exposure

Dietary doses for mammals were estimated based on ingestion of biota (i.e., prey), incidental ingestion of sediment, and ingestion of surface water. Dietary doses were estimated as milligrams of each COPEC ingested per kilogram of body weight per day (mg/kg bw/day) using Equation 4-1.

The body weights, ingestion rates, and SUFs obtained from the literature for mink and river otter are presented in Table 5-2. These parameters are described in detail in the main text of the BERA. A conservative SUF of 1 was assumed for mink and river otter within each of the three exposure areas evaluated.

Table 5-2. Exposure parameter values for mink and river otter

Species	BW (kg)[a]	Food Ingestion		Incidental Sediment Ingestion			WIR (L/day)[c]
		FIR (kg ww/day)	Source	SI (%)[b]	SIR (kg dw/day)	Source	
Mink	1.0	0.14[d]	Bleavins and Aulerich (1981)	2	0.00056	no empirical data available; based on feeding habits and best professional judgment	0.099
River otter	8.0	1.3[e]	USEPA (1993); Nagy (1987)	2	0.0052	no empirical data available; based on feeding habits and best professional judgment	0.64

[a] Average of male and female adult body weights reported by USEPA (1993).

[b] Based on percentage of the dry diet that is incidentally ingested sediment. Dry weight FIRs estimated from wet weight FIRs assuming 80% moisture in the diet.

[c] WIR based on Calder and Braun (1983), in which mammal WIR = 0.099 x $BW^{0.90}$, and body weight is expressed in kilograms.

[d] FIR = 14% of body weight on average (range reported was 12 to 16%).

[e] FIR was calculated based on the FMR for river otter using the following equation: FIR (kg ww/day) = FMR/ME × (0.001 g/kg) (USEPA 1993). The FMR (kcal/day) was calculated as 0.6167 x $BW^{0.862}$, wherein body weight is expressed in grams (based on the equation for non-herbivorous mammals from Nagy (1987)). The ME (kcal/g ww) was calculated as GE (kcal/g ww) x AE (unitless) for the river otter prey. The ME for river otter of 1.1 kcal/g ww was calculated assuming a diet of 85% fish (GE =1.2 kcal/g ww and AE = 0.89) and 15% crab (GE = 1 kcal/g ww and AE = 0.86). This approach is analogous to the approach used for river otter as part of the Great Lakes Water Quality Initiative (USEPA 1995b).

AE – assimilation efficiency
BW or bw – body weight
dw – dry weight
FIR – food ingestion rate
FMR – field metabolic rate
GE – gross energy
ME – metabolizable energy
SI – sediment ingestion
SIR – sediment ingestion rate
USEPA – US Environmental Protection Agency
WIR – water ingestion rate
ww – wet weight

The EPC for prey for mink and river otter was calculated from the fractions of different prey types in the species' diets and the EPCs for each of those prey types using Equation 3-2. The dietary fraction of each component in mink and river otter diets was based on information obtained from the literature. The dietary fraction assumed for each species and the assumptions used to derive the dietary fractions are described in detail in the main text of the BERA.

For this evaluation, the dietary fractions were evaluated within each of the three exposure areas (i.e., RM 8.3 to RM 17.4, RM 8.3 to RM 14.7, and RM 14.7 to RM 17.4). Table 5-3 presents the species-specific data groups evaluated for the mammal dietary LOE.

Table 5-3. Dietary EPC groups for mink and river otter

Species and Exposure Area	Prey Type[a]	% in Diet	Sediment type	Sediment and Tissue Exposure Area	Surface Water Exposure Area
Mink					
Scenario 1 – aquatic/ terrestrial prey[c]	blue crab	16.5	all surface sediment	RM 8.3–RM 17.4; RM 8.3–RM 14.7; and RM 14.7–RM 17.4	RM 8.3–RM 17.4 only[d]
	fish ≤ 30 cm[b]	34			
Scenario 2 – aquatic/ terrestrial prey[c]	blue crab	16.5	all surface sediment	RM 8.3–RM 17.4; RM 8.3–RM 14.7; and RM 14.7–RM 17.4	RM 8.3–RM 17.4 only[d]
	fish ≤ 30 cm[b]	31			
	fish > 30 cm[b]	3			
Scenario 3 – aquatic prey only	blue crab	16.5	all surface sediment	RM 8.3–RM 17.4; RM 8.3–RM 14.7; and RM 14.7–RM 17.4	RM 8.3–RM 17.4 only[d]
	fish ≤ 30 cm[b]	83.5			
Scenario 4 – aquatic prey only	blue crab	16.5	all surface sediment	RM 8.3–RM 17.4; RM 8.3–RM 14.7; and RM 14.7–RM 17.4	RM 8.3–RM 17.4 only[d]
	fish ≤ 30 cm[b]	80.5			
	fish > 30 cm[b]	3			
Scenario 5 – aquatic prey only	blue crab	33.5	all surface sediment	RM 8.3–RM 17.4; RM 8.3–RM 14.7; and RM 14.7–RM 17.4	RM 8.3–RM 17.4 only[d]
	fish ≤ 30 cm[b]	63.5			
	fish > 30 cm[b]	3			
River Otter					
Scenario 1	blue crab	15	all surface sediment	RM 8.3–RM 17.4; RM 8.3–RM 14.7; and RM 14.7–RM 17.4	RM 8.3–RM 17.4 only[d]
	fish ≤ 30 cm[b]	85			
Scenario 2	blue crab	15	all surface sediment	RM 8.3–RM 17.4; RM 8.3–RM 14.7; and RM 14.7–RM 17.4	RM 8.3–RM 17.4 only[d]
	fish ≤ 30 cm[b]	80			
	fish > 30 cm[b]	5			

Note: If fewer than six samples were available for calculating a UCL, the maximum concentration was used.

[a] Includes whole-body tissue.

[b] For composite samples, length is based on the maximum length of any fish in the sample.

[c] For the aquatic and terrestrial prey evaluation for mink, the portion of terrestrial prey (i.e., concentrations of the terrestrial diet making up 49.5% of the total diet) was assumed to be negligible (i.e., COPEC concentration set equal to zero).

[d] Because of the limited number of surface water samples between RM 8.3 and RM 17.4, all surface water data collected between RM 8.3 and RM 17.4 were used in all exposure area scenarios.

COPEC – chemical of potential ecological concern
EPC – exposure point concentration
RM – river mile
UCL – upper confidence limit on the mean

EPCs were calculated for each of the modeled media types (prey, sediment, and water) to calculate dietary doses. UCL concentrations were calculated using USEPA's ProUCL® statistical package (Version 5.0.00) (USEPA 2013). For each dataset with fewer than six samples, a UCL was not calculated; instead, the maximum concentration was used as the EPC. This was also the case for some of the prey tissue groups, particularly for blue crab (Table 5-4).

Table 5-4. Summary of mammal prey tissue, sediment, and surface water sample group counts by exposure area

Prey group	Number of Composite Samples		
	RM 8.3 to RM 17.4[a]	RM 8.3 to RM 14.7[b]	RM 14.7 to RM 17.4[c]
Prey tissue type			
Blue crab	n = 2	n = 2	no data[d]
Fish 0–30 cm	n = 31	n = 20	n = 11
Fish > 30 cm	n = 47	n = 31	n = 16
Sediment sample group			
All surface sediment samples	n = 522	n = 485	n = 37
Surface water sample group			
All water samples	n = 66	n = 66	no data[e]

Shaded rows indicate where UCLs could be derived. In all other cases, maximum concentrations were used to represent the EPC because insufficient data were available to derive a UCL.

[a] Includes blue crab and fish tissue samples collected from Reach 5 (RM 8 to RM 10), Reach 6 (RM 10 to RM 12), Reach 7 (RM 12 to RM 14), and Reach 8 (RM 14 to RM 17.4).

[b] Includes blue crab and fish tissue samples collected from Reach 5 (RM 8 to RM 10), Reach 6 (RM 10 to RM 12), and Reach 7 (RM 12 to RM 14).

[c] Includes blue crab and fish tissue samples collected from Reach 8 (RM 14 to RM 17.4).

[d] No tissue data for blue crab were available between RM 14 and RM 17.4; therefore, blue crab collected from the RM 8.3 to RM 14.7 exposure area were used in the dietary evaluation for mink and river otter in the exposure area between RM 14.7 and RM 17.4.

[e] No surface water data were available between RM 14 and RM 17.4; therefore, surface water data collected from RM 8.3 to RM 14.7 were used in the dietary evaluation for mammals.

EPC – exposure point concentration

RM – river mile

UCL – upper confidence limit (on the mean)

Dietary doses calculated for mink and river otter using Equations 3-2 and 4-1 are presented in Table 5-5.

Table 5-5. Dietary doses calculated for mink and river otter

COPEC	Units	Area	River Otter Diet Scenario		Mink Diet Scenario				
			1[a]	2[b]	1[c]	2[d]	3[e]	4[f]	5[g]
Arsenic	mg/kg bw/day	RM 8.3–RM 17.4	0.15	0.15	0.16	0.16	0.17	0.17	0.18
		RM 8.3–RM 14.7	0.15	0.15	0.16	0.16	0.18	0.18	0.18
		RM 14.7–RM 17.4	0.15	0.15	0.16	0.16	0.17	0.17	0.18
Cadmium	mg/kg bw/day	RM 8.3–RM 17.4	0.026	0.026	0.024	0.024	0.027	0.027	0.029
		RM 8.3–RM 14.7	0.025	0.025	0.024	0.024	0.027	0.027	0.029
		RM 14.7–RM 17.4	0.029	0.029	0.024	0.024	0.030	0.030	0.031
Copper	mg/kg bw/day	RM 8.3–RM 17.4	2.2	2.1	1.8	1.8	2.1	2.1	2.7
		RM 8.3–RM 14.7	2.4	2.3	1.9	1.8	2.3	2.3	2.9
		RM 14.7–RM 17.4	1.9	1.9	1.7	1.7	1.9	1.9	2.5

Table 5-5. Dietary doses calculated for mink and river otter

COPEC	Units	Area	River Otter Diet Scenario		Mink Diet Scenario				
			1[a]	2[b]	1[c]	2[d]	3[e]	4[f]	5[g]
Lead	mg/kg bw/day	RM 8.3–RM 17.4	1.1	1.0	1.0	1.0	1.2	1.1	1.1
		RM 8.3–RM 14.7	1.1	1.1	1.1	1.1	1.2	1.2	1.1
		RM 14.7–RM 17.4	1.0	1.0	1.0	1.0	1.1	1.1	1.1
Mercury	µg/kg bw/day	RM 8.3–RM 17.4	27	27	16	16	25	25	24
		RM 8.3–RM 14.7	29	30	17	17	27	27	26
		RM 14.7–RM 17.4	27	28	15	16	25	26	24
Methylmercury	µg/kg bw/day	RM 8.3–RM 17.4	20	20	7.8	8.0	17	17	16
		RM 8.3–RM 14.7	20	20	7.8	8.0	17	17	16
		RM 14.7–RM 17.4	21	22	8.3	8.6	18	18	17
Nickel	mg/kg bw/day	RM 8.3–RM 17.4	1.9	1.8	0.84	0.79	1.7	1.6	1.4
		RM 8.3–RM 14.7	2.3	2.2	0.98	0.92	2.0	2.0	1.6
		RM 14.7–RM 17.4	1.9	1.8	0.83	0.79	1.7	1.6	1.4
Selenium	mg/kg bw/day	RM 8.3–RM 17.4	0.19	0.19	0.12	0.12	0.18	0.18	0.17
		RM 8.3–RM 14.7	0.23	0.22	0.13	0.13	0.21	0.21	0.20
		RM 14.7–RM 17.4	0.16	0.15	0.11	0.10	0.15	0.15	0.15
Vanadium	mg/kg bw/day	RM 8.3–RM 17.4	0.39	0.39	0.38	0.38	0.44	0.43	0.42
		RM 8.3–RM 14.7	0.39	0.38	0.38	0.38	0.43	0.43	0.42
		RM 14.7–RM 17.4	0.38	0.38	0.37	0.37	0.43	0.42	0.41
Zinc	mg/kg bw/day	RM 8.3–RM 17.4	7.2	7.3	4.8	4.8	6.9	6.9	7.1
		RM 8.3–RM 14.7	7.1	7.2	4.8	4.9	6.8	6.9	7.0
		RM 14.7–RM 17.4	7.8	7.7	5.0	4.9	7.4	7.4	7.4
Benzo(a)pyrene	µg/kg bw/day	RM 8.3–RM 17.4	13	13	12	12	13	13	13
		RM 8.3–RM 14.7	13	13	12	12	14	14	13
		RM 14.7–RM 17.4	16	16	13	13	16	16	15
Total HPAHs	µg/kg bw/day	RM 8.3–RM 17.4	140	136	125	124	144	143	137
		RM 8.3–RM 14.7	150	146	129	127	152	151	144
		RM 14.7–RM 17.4	150	145	124	122	152	150	141
Total PAHs	µg/kg bw/day	RM 8.3–RM 17.4	170	175	153	152	182	181	172
		RM 8.3–RM 14.7	190	184	157	156	189	188	178
		RM 14.7–RM 17.4	190	185	153	151	191	189	177
Total PCBs	µg/kg bw/day	RM 8.3–RM 17.4	260	267	96	100	221	225	189
		RM 8.3–RM 14.7	330	334	120	123	279	282	234
		RM 14.7–RM 17.4	130	145	51	59	111	119	105

Table 5-5. Dietary doses calculated for mink and river otter

COPEC	Units	Area	River Otter Diet Scenario		Mink Diet Scenario				
			1[a]	2[b]	1[c]	2[d]	3[e]	4[f]	5[g]
PCB TEQ - mammal	ng/kg bw/day	RM 8.3–RM 17.4	2.0	2.2	0.81	0.9	1.7	1.8	1.7
		RM 8.3–RM 14.7	2.6	2.7	1.00	1.1	2.2	2.3	2.0
		RM 14.7–RM 17.4	1.8	2.2	0.75	0.9	1.6	1.8	1.7
PCDD/PCDF TEQ - mammal	ng/kg bw/day	RM 8.3–RM 17.4	14	14	6.4	6.8	12	12	12
		RM 8.3–RM 14.7	18	19	7.7	8.2	15	16	15
		RM 14.7–RM 17.4	4.8	5.3	2.5	2.7	4.2	4.5	5.2
Total TEQ - mammal	ng/kg bw/day	RM 8.3–RM 17.4	15	16	7.0	7.5	13	13	13
		RM 8.3–RM 14.7	19	21	8.3	8.9	17	17	16
		RM 14.7–RM 17.4	6.4	7.2	3.2	3.6	5.6	6.0	6.7
Dieldrin	µg/kg bw/day	RM 8.3–RM 17.4	4.6	4.7	1.8	1.8	4.0	4.0	3.4
		RM 8.3–RM 14.7	3.8	3.9	1.5	1.6	3.3	3.3	2.9
		RM 14.7–RM 17.4	7.2	7.2	2.7	2.7	6.2	6.2	5.1

[a] Dietary doses were calculated using a diet with 15% blue crab and 85% ≤ 30-cm fish.

[b] Dietary doses were calculated using a diet with 15% blue crab, 80% ≤ 30-cm fish, and 5% > 30-cm fish.

[c] Dietary doses were calculated using a diet with 16.5% blue crab and 34% ≤ 30-cm fish (49.5% of the diet was terrestrial, which was assumed to be zero).

[d] Dietary doses were calculated using a diet with 16.5% blue crab, 31% ≤ 30-cm fish, and 3% > 30-cm fish (49.5% of the diet was terrestrial, which was assumed to be zero).

[e] Dietary doses were calculated using a diet with 16.5% blue crab and 83.5% ≤ 30-cm fish.

[f] Dietary doses were calculated using a diet with 16.5% blue crab, 80.5% ≤ 30-cm fish, and 3% > 30-cm fish.

[g] Dietary doses were calculated using a diet with 33.5% blue crab, 63.5% ≤ 30-cm fish, and 3% > 30-cm fish.

bw – body weight
COPEC – chemical of potential ecological concern
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile
TEQ – toxic equivalent
UCL – upper confidence limit on the mean

5.1.2 Effects

As described in the BERA, two sets of mammal dietary TRVs were used for the derivation of HQs. The first set of TRVs was based on previous documents developed by USEPA Region 2 for the LPRSA:

- USEPA's LPR restoration project FFS (Louis Berger et al. 2014)
- USEPA's first draft of the LPRSA FFS (Malcolm Pirnie 2007)
- USEPA's LPR restoration project PAR (Battelle 2005)

The second set of TRVs was derived based on a review of the general toxicological literature. Both NOAEL and LOAEL TRVs were derived. Table 5-6 presents the

mammal diet TRVs for the COPECs. Details and uncertainty associated with both sets of TRVs are provided in the main text of the BERA.

Table 5-6. Mammal dietary TRVs

COPEC	Units	Range of TRVs[a]								
		TRV-A[b]				TRV-B[c]				
		NOAEL	LOAEL	Endpoint	Source	NOAEL	LOAEL	Endpoint	Source	Document
Arsenic	mg/kg bw/day	2.6	5.4	growth (rat)	Hext et al. (1999)	0.32	4.7	growth (NOAEL); cellular (LOAEL) (rat)	Schroeder et al. (1968) (NOAEL); Brown et al. (1976) (LOAEL), both as cited in USEPA (2002)	2005 PAR (Battelle 2005)
Cadmium	mg/kg bw/day	3.5	13	growth (rat)	Machemer and Lorke (1981)	0.060	2.64	reproduction (mouse)	Webster (1988) (NOAEL); Schroeder & Mitchener (1971) (LOAEL), both as cited in USEPA (2002)	2005 PAR (Battelle 2005)
Copper	mg/kg bw/day	18	26	reproduction (mink)	Aulerich et al. (1982)	3.4	6.8	reproduction (mink)	Aulerich et al. (1982) as cited in USEPA (2007a)	revised FFS (Louis Berger et al. 2014)
Lead	mg/kg bw/day	11	90	growth (rat)	Azar et al. (1973)	0.71	7.0	reproduction (rat)	Grant et al. (1980) as cited in USEPA (2005b)	revised FFS (Louis Berger et al. 2014)
Methylmercury/ mercury	µg/kg bw/day	160	250	growth, survival (mink)	Wobeser et al. (1976b)	16	27	growth (mink)	Wobeser et al. (1976a, b) as derived in USEPA (1995a)	revised FFS (Louis Berger et al. 2014)
Nickel	mg/kg bw/day	40	80	reproduction (rat)	Ambrose et al. (1976)	0.133	31.6	reproduction (rat)	Smith et al. (1993) as cited in USEPA (2002)	2005 PAR (Battelle 2005)
Selenium	mg/kg bw/day	0.016[d]	0.16	growth (rat)	Behne et al. (1992)	0.050	1.21	liver (NOAEL); reproduction (LOAEL) (mouse)	Harr et al. (1967) (NOAEL); Schroeder & Mitchener (1971) (LOAEL), both as cited in USEPA (2002)	2005 PAR (Battelle 2005)
Vanadium	mg/kg bw/day	0.27[d]	2.7	growth (rat)	Adachi et al. (2000)	na	na	na	na	na
Zinc	mg/kg bw/day	160	320	reproduction (rat)	Schlicker and Cox (1968)	9.6	411	growth (mouse)	Culp et al. (1998) as cited in USEPA (2007c)	2005 PAR (Battelle 2005)

Table 5-6. Mammal dietary TRVs

COPEC	Units	Range of TRVs[a]								
		TRV-A[b]				TRV-B[c]				
		NOAEL	LOAEL	Endpoint	Source	NOAEL	LOAEL	Endpoint	Source	Document
Total HPAHs	µg/kg bw/day	na	na	na	na	620	3,100	growth (mouse)	Culp et al. (1998) as cited in USEPA (2007c)	revised FFS (Louis Berger et al. 2014)
Benzo(a)pyrene (HPAH)	µg/kg bw/day	1,000[d]	10,000	reproduction (mouse)	MacKenzie and Angevine (1981)	na	na	na	na	na
Total PCBs	µg/kg bw/day	80	96	reproduction (mink)	Chapman (2003)	69	82	reproduction (mink)	Chapman (2003)	revised FFS (Louis Berger et al. 2014)
PCB TEQ - mammal	ng/kg bw/day	2.6	8.8	reproduction (mink)	Hochstein et al. (2001)	0.08	2.2	reproduction (mink)	Tillett et al. (1996)	revised FFS (Louis Berger et al. 2014)
PCDD/PCDF TEQ - mammal										
Total TEQ - mammal										
Dieldrin	µg/kg bw/day	15	30	reproduction (rat)	Harr et al. (1970)	15	30	reproduction (rat)	Harr et al (1970) as cited in USEPA (2005b)	2014 FFS (Louis Berger et al. 2014)

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] TRVs from the primary literature review were derived based on the process identified in the main text of the BERA.

[c] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014), the first draft of the LPR restoration project FFS (Malcolm Pirnie 2007), or USEPA's LPR restoration project PAR (Battelle 2005).

[d] NOAEL was extrapolated from LOAEL using an uncertainty factor of 10.

BERA – baseline ecological risk assessment
bw – body weight
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin

COPEC – chemical of potential ecological concern
FFS – focused feasibility study
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
LOAEL – lowest-observed-adverse-effect level
na – not available
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PAR – pathways analysis report
PCDF – polychlorinated dibenzofuran
TEQ – toxic equivalent
TRV – toxicity reference value
USEPA – US Environmental Protection Agency

5.1.3 HQ Results

Tables 5-7a and 5-7b presents the mammal dietary HQs for the COPECs in the three exposure areas: RM 8.3 to RM 17.4, RM 8.3 to RM 14.7, and RM 14.7 to RM 17.4. LOAEL HQs were ≥ 1.0 for at least one exposure area and one diet scenario for six COPECs: mercury, selenium, total PCB congeners, PCB TEQ - mammal, PCDD/PCDF TEQ - mammal, and total TEQ - mammal.

Table 5-7a. River otter dietary HQ

COPEC	Exposure Area	Range of HQs[a]							
		Diet Scenario 1[b]				Diet Scenario 2[b]			
		HQ Based on TRV-A[c]		HQ Based on TRV-B[d]		HQ Based on TRV-A[c]		HQ Based on TRV-B[d]	
		NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
Arsenic	RM 8.3–RM 17.4	0.059	0.028	0.48	0.032	0.058	0.028	0.47	0.032
	RM 8.3–14.7	0.060	0.029	0.48	0.033	0.059	0.028	0.48	0.033
	RM 14.7–17.4	0.058	0.029	0.47	0.032	0.058	0.028	0.47	0.032
Cadmium	RM 8.3–RM 17.4	0.0073	0.0020	0.43	0.010	0.0074	0.0020	0.43	0.010
	RM 8.3–14.7	0.0071	0.0019	0.41	0.0094	0.0071	0.0019	0.41	0.0094
	RM 14.7–17.4	0.0083	0.0022	0.49	0.011	0.0082	0.0022	0.48	0.011
Copper	RM 8.3–RM 17.4	0.12	0.083	0.64	0.32	0.12	0.082	0.63	0.31
	RM 8.3–14.7	0.13	0.092	0.70	0.35	0.13	0.09	0.69	0.35
	RM 14.7–17.4	0.11	0.074	0.56	0.28	0.10	0.073	0.56	0.28
Lead	RM 8.3–RM 17.4	0.096	0.012	**1.5**	0.15	0.095	0.012	**1.5**	0.15
	RM 8.3–14.7	0.099	0.012	**1.5**	0.16	0.098	0.012	**1.5**	0.15
	RM 14.7–17.4	0.095	0.012	**1.5**	0.14	0.094	0.012	**1.5**	0.15
Mercury	RM 8.3–RM 17.4	0.17	0.11	**1.7**	0.98	0.17	0.11	**1.7**	**1.0**
	RM 8.3–14.7	0.18	0.12	**1.8**	**1.1**	0.19	0.12	**1.9**	**1.1**
	RM 14.7–17.4	0.17	0.11	**1.7**	**1.0**	0.17	0.11	**1.7**	**1.0**
Methylmercury	RM 8.3–RM 17.4	0.12	0.079	**1.2**	0.73	0.12	0.08	**1.2**	0.74
	RM 8.3–14.7	0.12	0.079	**1.2**	0.73	0.12	0.08	**1.2**	0.74
	RM 14.7–17.4	0.13	0.084	**1.3**	0.78	0.14	0.086	**1.4**	0.80

Table 5-7a. River otter dietary HQ

COPEC	Exposure Area	Range of HQs[a]							
		Diet Scenario 1[b]				Diet Scenario 2[b]			
		HQ Based on TRV-A[c]		HQ Based on TRV-B[d]		HQ Based on TRV-A[c]		HQ Based on TRV-B[d]	
		NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
Nickel	RM 8.3–RM 17.4	0.047	0.024	**14**	0.060	0.045	0.022	**13**	0.057
	RM 8.3–14.7	0.057	0.029	**17**	0.073	0.055	0.027	**16**	0.069
	RM 14.7–17.4	0.047	0.023	**14**	0.059	0.045	0.022	**13**	0.057
Selenium	RM 8.3–RM 17.4	**12**	**1.2**	**3.9**	0.16	**12**	**1.2**	**3.8**	0.16
	RM 8.3–14.7	**14**	**1.4**	**4.6**	0.19	**14**	**1.4**	**4.5**	0.18
	RM 14.7–17.4	**9.7**	0.97	**3.1**	0.13	**9.6**	0.96	**3.1**	0.13
Vanadium	RM 8.3–RM 17.4	**1.5**	0.15	na	na	**1.4**	0.14	na	na
	RM 8.3–14.7	**1.4**	0.14	na	na	**1.4**	0.14	na	na
	RM 14.7–17.4	**1.4**	0.14	na	na	**1.4**	0.14	na	na
Zinc	RM 8.3–RM 17.4	0.045	0.022	0.75	0.017	0.045	0.023	0.76	0.018
	RM 8.3–14.7	0.044	0.022	0.74	0.017	0.045	0.023	0.75	0.018
	RM 14.7–17.4	0.049	0.024	0.81	0.019	0.048	0.024	0.81	0.019
Benzo(a)pyrene	RM 8.3–RM 17.4	0.013	0.0013	na	na	0.013	0.0013	na	na
	RM 8.3–14.7	0.013	0.0013	na	na	0.013	0.0013	na	na
	RM 14.7–17.4	0.016	0.0016	na	na	0.016	0.0016	na	na
Total HPAHs	RM 8.3–RM 17.4	na	na	0.22	0.045	na	na	0.22	0.044
	RM 8.3–14.7	na	na	0.24	0.048	na	na	0.23	0.047
	RM 14.7–17.4	na	na	0.24	0.048	na	na	0.23	0.047

Table 5-7a. River otter dietary HQ

COPEC	Exposure Area	Range of HQs[a]							
		Diet Scenario 1[b]				Diet Scenario 2[b]			
		HQ Based on TRV-A[c]		HQ Based on TRV-B[d]		HQ Based on TRV-A[c]		HQ Based on TRV-B[d]	
		NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
Total PCBs	RM 8.3–RM 17.4	**3.2**	**2.7**	**3.8**	**3.2**	**3.3**	**2.8**	**3.9**	**3.3**
	RM 8.3–14.7	**4.1**	**3.4**	**4.8**	**4.0**	**4.2**	**3.5**	**4.8**	**4.1**
	RM 14.7–17.4	**1.6**	**1.4**	**1.9**	**1.6**	**1.8**	**1.5**	**2.1**	**1.8**
PCB TEQ - mammal	RM 8.3–RM 17.4	0.77	0.23	**25**	0.91	0.85	0.25	**28**	**1.0**
	RM 8.3–14.7	0.98	0.29	**32**	**1.2**	**1.0**	0.31	**34**	**1.2**
	RM 14.7–17.4	0.71	0.21	**23**	0.84	0.85	0.25	**27**	**1.0**
PCDD/PCDF TEQ - mammal	RM 8.3–RM 17.4	**5.2**	**1.5**	**170**	**6.2**	**5.5**	**1.6**	**180**	**6.5**
	RM 8.3–14.7	**6.9**	**2.0**	**220**	**8.1**	**7.3**	**2.1**	**240**	**8.6**
	RM 14.7–17.4	**1.9**	0.55	**60**	**2.2**	**2.0**	0.60	**67**	**2.4**
Total TEQ - mammal	RM 8.3–RM 17.4	**5.8**	**1.7**	**190**	**6.8**	**6.2**	**1.8**	**200**	**7.3**
	RM 8.3–14.7	**7.5**	**2.2**	**240**	**8.8**	**7.9**	**2.3**	**260**	**9.4**
	RM 14.7–17.4	**2.5**	0.73	**80**	**2.9**	**2.8**	0.82	**90**	**3.3**
Dieldrin	RM 8.3–RM 17.4	0.31	0.15	0.31	0.15	0.31	0.16	0.31	0.16
	RM 8.3–14.7	0.25	0.13	0.25	0.13	0.26	0.13	0.26	0.13
	RM 14.7–17.4	0.48	0.24	0.48	0.24	0.48	0.24	0.48	0.24

Bold identifies HQs ≥ 1.0.

Shaded cells identify LOAEL HQs ≥ 1.0.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's

position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] Dietary doses were calculated using five diet scenarios. Scenario 1 included 16.5% blue crab and 34% ≤ 30-cm fish (49.5% of the diet was terrestrial, which was assumed to be zero). Scenario 2 included 16.5% blue crab, 31% ≤ 30-cm fish, and 3% > 30-cm fish (49.5% of the diet was terrestrial, which was assumed to be zero). Scenario 3 included 16.5% blue crab and 83.5% ≤ 30-cm fish. Scenario 4 included 16.5% blue crab, 80.5% ≤ 30-cm fish, and 3% > 30-cm fish. Scenario 5 included 33.5% blue crab, 63.5% ≤ 30-cm fish, and 3% > 30-cm fish.

[c] TRVs were derived from the primary literature based on the process identified in the main text of the BERA.

[d] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014), the first draft of the LPR restoration project FFS (Malcolm Pirnie 2007) or USEPA's LPR restoration project PAR (Battelle 2005).

BERA – baseline ecological risk assessment
COPEC – chemical of potential ecological concern
FFS – focused feasibility study
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
PAH – polycyclic aromatic hydrocarbon
na – not applicable (no TRV available)
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PAR – pathways analysis report
PCB – polychlorinated biphenyl
PCDD - polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile
TEQ – toxic equivalent
TRV – toxicity reference value
USEPA – US Environmental Protection Agency

Table 5-7b. Mink dietary HQs

COPEC	Exposure Area	Range of HQs[a]																			
		Diet Scenario 1[b]				Diet Scenario 2[b]				Diet Scenario 3[b]				Diet Scenario 4[b]				Diet Scenario 5[b]			
		HQ Based on TRV-A[c]		HQ Based on TRV-B[d]		HQ Based on TRV-A[c]		HQ Based on TRV-B[d]		HQ Based on TRV-A[c]		HQ Based on TRV-B[d]		HQ Based on TRV-A[c]		HQ Based on TRV-B[d]		HQ Based on TRV-A[c]		HQ Based on TRV-B[d]	
		NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
Arsenic	RM 8.3–RM 17.4	0.062	0.030	0.50	0.034	0.062	0.030	0.50	0.034	0.067	0.032	0.54	0.037	0.067	0.032	0.54	0.037	0.069	0.033	0.56	0.038
	RM 8.3–14.7	0.062	0.030	0.50	0.034	0.062	0.030	0.50	0.034	0.068	0.033	0.55	0.037	0.067	0.032	0.55	0.037	0.069	0.033	0.56	0.038
	RM 14.7–17.4	0.061	0.030	0.50	0.034	0.061	0.030	0.50	0.034	0.066	0.032	0.54	0.037	0.066	0.032	0.54	0.037	0.068	0.033	0.55	0.038
Cadmium	RM 8.3–RM 17.4	0.0070	0.0019	0.41	0.0093	0.0070	0.0019	0.41	0.0093	0.0078	0.0021	0.46	0.010	0.0078	0.0021	0.46	0.010	0.0084	0.0023	0.49	0.011
	RM 8.3–14.7	0.0070	0.0019	0.40	0.0092	0.0070	0.0019	0.40	0.0092	0.0076	0.0020	0.44	0.010	0.0076	0.0020	0.44	0.010	0.0082	0.0022	0.48	0.011
	RM 14.7–17.4	0.0070	0.0019	0.41	0.0092	0.0069	0.0019	0.40	0.0091	0.0086	0.0023	0.50	0.011	0.0086	0.0023	0.50	0.011	0.0088	0.0024	0.51	0.012
Copper	RM 8.3–RM 17.4	0.099	0.069	0.52	0.26	0.098	0.068	0.52	0.26	0.12	0.083	0.63	0.32	0.12	0.082	0.63	0.31	0.15	0.10	0.80	0.40
	RM 8.3–14.7	0.10	0.072	0.54	0.27	0.10	0.071	0.54	0.27	0.13	0.090	0.69	0.34	0.13	0.089	0.68	0.34	0.16	0.11	0.84	0.42
	RM 14.7–17.4	0.093	0.064	0.48	0.24	0.092	0.064	0.49	0.24	0.11	0.074	0.57	0.28	0.11	0.074	0.57	0.28	0.14	0.097	0.74	0.37
Lead	RM 8.3–RM 17.4	0.095	0.012	**1.5**	0.15	0.095	0.012	**1.5**	0.15	0.10	0.013	**1.6**	0.16	0.10	0.013	**1.6**	0.16	0.10	0.012	**1.6**	0.16
	RM 8.3–14.7	0.097	0.012	**1.5**	0.15	0.096	0.012	**1.5**	0.15	0.11	0.013	**1.7**	0.17	0.11	0.013	**1.7**	0.17	0.10	0.013	**1.6**	0.16
	RM 14.7–17.4	0.094	0.011	**1.5**	0.15	0.094	0.011	**1.5**	0.15	0.10	0.013	**1.6**	0.16	0.10	0.013	**1.6**	0.16	0.10	0.012	**1.6**	0.16
Mercury	RM 8.3–RM 17.4	0.097	0.062	0.97	0.58	0.099	0.063	0.99	0.60	0.15	0.098	**1.5**	0.90	0.16	0.099	**1.6**	0.90	0.15	0.095	**1.5**	0.90
	RM 8.3–14.7	0.10	0.066	**1.0**	0.62	0.10	0.067	**1.0**	0.62	0.17	0.11	**1.7**	**1.0**	0.17	0.11	**1.7**	**1.0**	0.16	0.10	**1.6**	0.95
	RM 14.7–17.4	0.097	0.062	0.97	0.57	0.099	0.063	0.99	0.59	0.16	0.1	**1.6**	0.93	0.16	0.1	**1.6**	0.95	0.15	0.097	**1.5**	0.90
Methylmercury	RM 8.3–RM 17.4	0.049	0.031	0.49	0.29	0.050	0.032	0.50	0.30	0.11	0.067	**1.1**	0.62	0.11	0.068	**1.1**	0.63	0.097	0.062	0.97	0.57
	RM 8.3–14.7	0.049	0.031	0.49	0.29	0.050	0.032	0.50	0.30	0.11	0.067	**1.1**	0.62	0.11	0.068	**1.1**	0.63	0.097	0.062	0.97	0.57
	RM 14.7–17.4	0.052	0.033	0.52	0.31	0.054	0.034	0.54	0.32	0.11	0.072	**1.1**	0.67	0.11	0.073	**1.1**	0.68	0.10	0.066	**1.0**	0.61
Nickel	RM 8.3–RM 17.4	0.021	0.011	**6.3**	0.027	0.020	0.0099	**6.0**	0.025	0.042	0.021	**13**	0.053	0.041	0.02	**12**	0.051	0.034	0.017	**10**	0.043
	RM 8.3–14.7	0.024	0.012	**7.4**	0.031	0.023	0.012	**6.9**	0.029	0.051	0.025	**15**	0.064	0.049	0.025	**15**	0.062	0.041	0.020	**12**	0.051
	RM 14.7–17.4	0.020	0.010	**6.3**	0.026	0.020	0.0099	**5.9**	0.025	0.042	0.021	**13**	0.053	0.040	0.020	**12**	0.051	0.034	0.017	**10**	Na0.043
Selenium	RM 8.3–RM 17.4	**7.4**	0.74	**2.4**	0.098	**7.4**	0.74	**2.4**	0.097	**12**	**1.2**	**3.7**	0.15	**12**	**1.1**	**3.7**	0.15	**11**	**1.1**	**3.5**	0.14
	RM 8.3–14.7	**8.1**	0.82	**2.6**	0.11	**8.0**	0.80	**2.6**	0.11	**13**	**1.3**	**4.3**	0.18	**13**	**1.3**	**4.2**	0.18	**12**	**1.2**	**3.9**	0.16
	RM 14.7–17.4	**6.6**	0.66	**2.1**	0.087	**6.6**	0.66	**2.1**	0.087	**9.5**	0.95	**3.0**	0.13	**9.5**	0.95	**3.0**	0.13	**9.2**	0.92	**3.0**	0.12
Vanadium	RM 8.3–RM 17.4	**1.4**	0.14	na	na	**1.4**	0.14	na	na	**1.6**	0.16	na	na	**1.6**	0.16	na	na	**1.5**	0.15	na	na
	RM 8.3–14.7	**1.4**	0.14	na	na	**1.4**	0.14	na	na	**1.6**	0.16	na	na	**1.6**	0.16	na	na	**1.5**	0.15	na	na
	RM 14.7–17.4	**1.4**	0.14	na	na	**1.4**	0.14	na	na	**1.6**	0.16	na	na	**1.6**	0.16	na	na	**1.5**	0.15	na	na
Zinc	RM 8.3–RM 17.4	0.030	0.015	0.50	0.012	0.030	0.015	0.51	0.012	0.043	0.022	0.72	0.017	0.043	0.022	0.72	0.017	0.044	0.022	0.74	0.017
	RM 8.3–14.7	0.030	0.015	0.50	0.012	0.030	0.015	0.51	0.012	0.042	0.021	0.71	0.017	0.043	0.022	0.72	0.017	0.044	0.022	0.73	0.017

Table 5-7b. Mink dietary HQs

COPEC	Exposure Area	Range of HQs[a]																			
		Diet Scenario 1[b]				Diet Scenario 2[b]				Diet Scenario 3[b]				Diet Scenario 4[b]				Diet Scenario 5[b]			
		HQ Based on TRV-A[c]		HQ Based on TRV-B[d]		HQ Based on TRV-A[c]		HQ Based on TRV-B[d]		HQ Based on TRV-A[c]		HQ Based on TRV-B[d]		HQ Based on TRV-A[c]		HQ Based on TRV-B[d]		HQ Based on TRV-A[c]		HQ Based on TRV-B[d]	
		NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
	RM 14.7–17.4	0.031	0.015	0.50	0.012	0.031	0.015	0.51	0.012	0.046	0.023	0.77	0.018	0.046	0.023	0.77	0.018	0.046	0.023	0.77	0.018
Benzo(a)pyrene	RM 8.3–RM 17.4	0.012	0.0012	na	na	0.012	0.0012	na	na	0.013	0.0013	na	na	0.013	0.0013	na	na	0.013	0.0013	na	na
	RM 8.3–14.7	0.012	0.0012	na	na	0.012	0.0012	na	na	0.014	0.0014	na	na	0.014	0.0014	na	na	0.013	0.0013	na	na
	RM 14.7–17.4	0.013	0.0013	na	na	0.013	0.0013	na	na	0.016	0.0016	na	na	0.016	0.0016	na	na	0.015	0.0015	na	na
Total HPAHs	RM 8.3–RM 17.4	na	na	0.20	0.04	na	na	0.20	0.04	na	na	0.23	0.046	na	na	0.23	0.046	na	na	0.22	0.044
	RM 8.3–14.7	na	na	0.21	0.042	na	na	0.21	0.041	na	na	0.25	0.049	na	na	0.24	0.049	na	na	0.23	0.046
	RM 14.7–17.4	na	na	0.20	0.04	na	na	0.20	0.039	na	na	0.25	0.049	na	na	0.24	0.049	na	na	0.23	0.046
Total PCBs	RM 8.3–RM 17.4	**1.2**	**1.0**	**1.4**	**1.2**	**1.2**	**1.0**	**1.4**	**1.2**	**2.8**	**2.3**	**3.2**	**2.7**	**2.8**	**2.3**	**3.3**	**2.7**	**2.4**	**2.0**	**2.7**	**2.3**
	RM 8.3–14.7	1.5	**1.2**	1.7	**1.5**	1.5	**1.3**	**1.8**	**1.5**	3.5	**2.9**	**4**	**3.4**	3.5	**2.9**	**4.1**	**3.4**	**2.9**	**2.4**	**3.4**	**2.9**
	RM 14.7–17.4	0.64	0.53	0.74	0.62	0.74	0.61	0.85	0.72	1.4	**1.2**	**1.6**	**1.4**	1.5	**1.2**	**1.7**	**1.5**	**1.3**	**1.1**	**1.5**	**1.3**
PCB TEQ - mammal	RM 8.3–RM 17.4	0.31	0.092	**10**	0.37	0.35	0.10	**11**	0.42	0.66	0.19	**21**	0.78	0.70	0.21	**23**	0.83	0.65	0.19	**21**	0.77
	RM 8.3–14.7	0.38	0.11	**12**	0.45	0.41	0.12	**13**	0.49	0.84	0.25	**27**	0.99	0.87	0.26	**28**	**1.0**	0.78	0.23	**25**	0.92
	RM 14.7–17.4	0.29	0.085	**9.4**	0.34	0.36	0.11	**12**	0.42	0.61	0.18	**20**	0.72	0.68	0.20	**22**	0.80	0.64	0.19	**21**	0.75
PCDD/PCDF TEQ - mammal	RM 8.3–RM 17.4	**2.4**	0.72	**80**	**2.9**	**2.6**	0.77	**84**	**3.1**	**4.5**	**1.3**	**150**	**5.3**	**4.6**	**1.4**	**150**	**5.5**	**4.5**	**1.3**	**140**	**5.3**
	RM 8.3–14.7	**3.0**	0.88	**96**	**3.5**	**3.6**	0.93	**100**	**3.7**	**5.9**	**1.7**	**190**	**7.0**	**6.1**	**1.8**	**200**	**7.2**	**5.6**	**1.7**	**180**	**6.6**
	RM 14.7–17.4	0.96	0.28	**31**	**1.1**	**1.1**	0.31	**34**	**1.2**	**1.6**	0.48	**53**	**1.9**	**1.7**	**0.51**	**56**	**2.0**	**2.0**	0.59	**65**	**2.4**
Total TEQ - mammal	RM 8.3–RM 17.4	**2.7**	0.79	**87**	**3.2**	**2.9**	0.85	**94**	**3.4**	**5**	**1.5**	**160**	**5.9**	**5.2**	**1.5**	**170**	**6.1**	**5.0**	**1.5**	**160**	**5.9**
	RM 8.3–14.7	**3.2**	0.94	**100**	**3.8**	**3.4**	**1.0**	**110**	**4.1**	**6.4**	**1.9**	**210**	**7.6**	**6.6**	**2.0**	**220**	**7.8**	**6.1**	**1.8**	**200**	**7.2**
	RM 14.7–17.4	**1.2**	0.36	**39**	**1.4**	**1.4**	0.40	**44**	**1.6**	**2.1**	0.63	**70**	**2.5**	**2.3**	0.68	**75**	**2.7**	**2.6**	0.76	**83**	**3.0**
Dieldrin	RM 8.3–RM 17.4	0.12	0.060	0.12	0.060	0.12	0.061	0.12	0.061	0.26	0.13	0.26	0.13	0.27	0.13	0.27	0.13	0.23	0.11	0.23	0.11
	RM 8.3–14.7	0.10	0.051	0.10	0.051	0.10	0.052	0.10	0.052	0.22	0.11	0.22	0.11	0.22	0.11	0.22	0.11	0.19	0.096	0.19	0.096
	RM 14.7–17.4	0.18	0.090	0.18	0.090	0.18	0.090	0.18	0.090	0.41	0.21	0.41	0.21	0.41	0.21	0.41	0.21	0.34	0.17	0.34	0.17

Bold identifies HQs ≥ 1.0.

Shaded cells identify LOAEL HQs ≥ 1.0.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] Dietary doses were calculated using five diet scenarios. Scenario 1 included 16.5% blue crab and 34% ≤ 30-cm fish (49.5% of the diet was terrestrial, which was assumed to be zero). Scenario 2 included 16.5% blue crab, 31% ≤ 30-cm fish, and 3% > 30-cm fish (49.5% of the diet was terrestrial, which was assumed to be zero). Scenario 3 included 16.5% blue crab and 83.5% ≤ 30-cm fish. Scenario 4 included 16.5% blue crab, 80.5% ≤ 30-cm fish, and 3% > 30-cm fish. Scenario 5 included 33.5% blue crab, 63.5% ≤ 30-cm fish, and 3% > 30-cm fish.

[c] TRVs were derived from the primary literature based on the process identified in the main text of the BERA.

[d] TRVs were based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014) the first draft of the LPR restoration project FFS (Malcolm Pirnie 2007) or USEPA's LPR restoration project PAR (Battelle 2005).

BERA – baseline ecological risk assessment
COPEC – chemical of potential ecological concern
FFS – focused feasibility study
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
na – not applicable (no TRV available)
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PAH – polycyclic aromatic hydrocarbon
PAR – pathways analysis report
PCB – polychlorinated biphenyl
PCDD - polychlorinated dibenzo-*p*-dioxin
PCDF – polychlorinated dibenzofuran
RM – river mile
TEQ – toxic equivalent
TRV – toxicity reference value
USEPA – US Environmental Protection Agency

5.1.4 Key uncertainties

The uncertainties associated with the mammal dietary risk characterization are discussed in the BERA.

5.1.5 Summary

Sixteen dietary COPECs were evaluated for mammals. LOAEL HQs were ≥ 1.0 for mercury, selenium, total PCBs, PCB TEQ - mammal, PCDD/PCDF TEQ - mammal, and total TEQ - mammal for at least one dietary scenario and at least one mammal. Table 5-8 provides the ranges of LOAEL HQs for all dietary and exposure area scenarios, using a range of TRVs for the COPECs with LOAEL HQs ≥ 1.0.

Mammal diet COPECs with LOAEL HQs > 1.0 in this upper 9-mile evaluation were the same as those in the 17.4-mile LPRSA BERA, with the exception of mercury and selenium LOAEL HQs, which were ≥ 1.0 in this upper 9-mile evaluation but < 1.0 in the BERA. HQs based on this upper 9-mile evaluation were slightly lower than those calculated for the entire LPRSA in the BERA (same order of magnitude, but lower).

Table 5-8. Summary of mammal dietary LOAEL HQs

Preliminary COC[b]	Range of LOAEL HQs[a]				Key Uncertainties
	Mink		River Otter		
	HQ Based on TRV-A[c]	HQ Based on TRV-B[d]	HQ Based on TRV-A[c]	HQ Based on TRV-B[d]	
Mercury	0.062–0.11	0.57–**1.0**	0.11–0.12	0.98**–1.1**	• TRV-A and TRV-B based on mink exposure to dietary mercury; TRVs based on the same literature source; TRV-B based on application of a subchronic-to-chronic uncertainty factor of 10 • HQ based on range of dietary scenarios and three exposure areas; for mink, HQs > 1.0 only based on RM 8.3–RM 14.7 exposure area
Selenium	0.66–**1.3**	0.087–0.18	0.96**–1.4**	0.13–0.19	• TRV-A based on lowest LOAEL from limited number of toxicity studies reviewed (n = 4 studies) • TRV-B based on drinking water exposure • HQ based on range of dietary scenarios and three exposure areas; HQs > 1.0 only based on RM 8.3–RM 17.4 and RM 8.3–RM 14.7 exposure areas

Table 5-8. Summary of mammal dietary LOAEL HQs

Preliminary COC[b]	Range of LOAEL HQs[a]				Key Uncertainties
	Mink		River Otter		
	HQ Based on TRV-A[c]	HQ Based on TRV-B[d]	HQ Based on TRV-A[c]	HQ Based on TRV-B[d]	
Total PCBs	0.53–**2.9**	0.62–**3.4**	**1.4–3.5**	**1.6–4.1**	• TRV-A and TRV-B based on mink exposure to dietary PCBs; TRVs based on the same literature source with slightly different ingestion rate and body weight assumptions • HQ based on range of dietary scenarios and three exposure areas; HQs lower based on RM 14.7–RM 17.4 exposure area; mink HQs lower based on consumption of aquatic prey and assuming zero exposure from terrestrial prey
PCB TEQ - mammal	0.085–0.26	0.34–**1.0**	0.21–0.31	0.84–**1.2**	• TRV-A based on mink fed laboratory-prepared diet; TRV-B based on mink fed field-collected carp • HQ based on range of dietary scenarios and three exposure areas; HQs lower based on RM 14.7–RM 17.4 exposure area; mink HQs lower based on consumption of aquatic prey and assuming zero exposure from terrestrial prey
PCDD/ PCDF TEQ - mammal	0.28–**1.8**	**1.1–7.2**	0.55–**2.1**	**2.2–8.6**	
Total TEQ - mammal	0.36**–2.0**	**1.4–7.8**	0.73–**2.3**	**2.9–9.4**	

Bold identifies HQs ≥ 1.0.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] Only COPECs with HQs ≥ 1.0 based on LOAEL TRVs are included in the table.

[c] TRVs were derived from the primary literature based on the process identified in the main text of the BERA.

[d] TRVs were derived based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014), the first draft of the LPR restoration project FFS (Malcolm Pirnie 2007) or USEPA's LPR restoration project PAR (Battelle 2005).

BERA – baseline ecological risk assessment
COC – chemical of concern
COPEC – chemical of potential ecological concern
FFS – focused feasibility study
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
na – not applicable
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PAR – pathways analysis report
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxins
PCDF – polychlorinated dibenzofurans
RM – river mile
TEQ – toxic equivalent
TRV – toxicity reference value
USEPA – US Environmental Protection Agency

5.2 SUMMARY OF RESULTS

The potential for risk to mammals was characterized using LPRSA tissue, sediment, and water chemistry to estimate dietary doses of COPECs for two mammal species (i.e., river otter and mink). Dietary doses were compared to a range of TRVs to derive risk estimates (HQs) in the risk characterization.

COPECs with HQs ≥ 1.0 based on LOAEL TRVs were identified as preliminary COCs for the upper 9 miles of the LPRSA. For mink and river otter, six preliminary COCs (i.e., mercury, selenium, total PCBs, PCB TEQ - mammal, PCDD/PCDF TEQ - mammal, and total TEQ - mammal) were identified with HQs ≥ 1.0 (Table 5-9).

Table 5-9. Summary of preliminary COCs for the upper 9 miles of the LPRSA

Preliminary COC[b]	Range of LOAEL HQs[a]			
	Mink		River Otter	
	HQ Based on TRV-A[c]	HQ Based on TRV-B[d]	HQ Based on TRV-A[c]	HQ Based on TRV-B[d]
Mercury	0.062–0.11	0.57–**1.0**	0.11–0.12	0.98**–1.1**
Selenium	0.66–**1.3**	0.087– 0.18	0.96**–1.4**	0.13–0.19
Total PCBs	0.53–**2.9**	0.62–**3.4**	**1.4–3.5**	**1.6–4.1**
PCB TEQ - mammal	0.085–0.26	0.34–**1.0**	0.21–0.31	0.84–**1.2**
PCDD/PCDF TEQ - mammal	0.28–**1.8**	**1.1–7.2**	0.55–**2.1**	**2.2–8.6**
Total TEQ - mammal	0.36**–2.0**	**1.4–7.8**	0.73–**2.3**	**2.9–9.4**

Bold identifies HQs ≥ 1.0.

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] Only COPECs with HQs ≥ 1.0 based on LOAEL TRVs are included in the table.

[c] TRVs were derived from the primary literature based on the process identified in the main text of the BERA.

[d] TRVs were derived based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014), the first draft of the LPR restoration project FFS (Malcolm Pirnie 2007) or USEPA's LPR restoration project PAR (Battelle 2005).

BERA – baseline ecological risk assessment
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PCDF – polychlorinated dibenzofurans
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TRV – toxicity reference value
USEPA – US Environmental Protection Agency

6 Zooplankton

The evaluation of risks to the zooplankton community in the LPRSA was based on a comparison of LPRSA surface water concentrations to TRVs intended to be protective of a variety of aquatic organisms. The assessment of zooplankton exposed to surface water was the same as that of fish presented in Section 3.3.

7 Amphibians and Reptiles

The evaluation of risks to amphibians and reptiles in the LPRSA was based on a comparison of LPRSA surface water concentrations to amphibian-specific TRVs. Limited amphibian- and reptile-specific water toxicity data are available, so the evaluation of risks to amphibians and reptiles is limited and uncertain. Sediment ingestion is also a likely exposure route for amphibian and reptile populations, but this route was not evaluated because it cannot be quantified reliably.

7.1 SURFACE WATER ASSESSMENT

A total of seven surface water COPECs were identified for amphibians and reptiles in the BERA: chromium, copper, lead, mercury, nickel, silver, and zinc. For these COPECs, exposure-based concentrations were compared with amphibian- and reptile-specific TRVs.

7.1.1 Exposure

Surface water EPCs for amphibians and reptiles were calculated for only one exposure area—between RM 8.3 and RM 14.7—for comparison to amphibian- and reptile-specific freshwater thresholds. No surface water data were available in the exposure area between RM 14.7 and RM 17.4. Both near-bottom (3 ft [0.9 m] above the bottom) and near-surface (3 ft [0.9 m] below the surface) samples collected throughout the LPRSA during various flow events were used in EPC calculations.

Surface water EPCs were based on a conservative upper-bound estimate of the mean concentration (i.e., UCL concentration). UCLs were calculated using USEPA's ProUCL® statistical package (Version 5.0.00) (USEPA 2013), as described in the BERA. EPCs in surface water samples are presented in Table 7-1.

Table 7-1. Surface water EPCs for amphibians and reptiles

COPEC	Units	EPC	
		RM 8.3 to RM 14.7	RM 14.7 to RM 17.4
Metals[a]			
Chromium	µg/L	1.1	no data
Copper	µg/L	7.81	no data
Lead	µg/L	8.26	no data
Mercury	µg/L	60	no data
Nickel	µg/L	2.37	no data
Silver	µg/L	0.11	no data
Zinc	µg/L	8.3	no data

[a] Metals based on dissolved concentrations.

COPEC – chemical of potential ecological concern EPC – exposure point concentration RM – river mile

7.1.2 Effects

As described in the BERA, surface water TRVs for amphibians and reptiles were based on amphibian- and reptile-specific TRVs. Table 7-2 presents the amphibian- and reptile-specific surface water TRVs for the COPECs. Details on and uncertainties associated with these TRVs are provided in the main text of the BERA.

Table 7-2. Amphibian- and reptile-specific surface water TRVs

COPEC	TSV (µg/L)	Acute TRV (µg/L)	Chronic TRV (µg/L)	TRV Derivation Method
Metals[a]				
Chromium	3	2,830	1,940	Acute TRV is the 5th percentile of the SSD based on acute toxicity data for 5 amphibian species, divided by 2. Chronic TRV is the 5th percentile divided by an ACR of 2.917 for sensitive freshwater fish and invertebrate species.[b]
Copper	25	12	7.7	Acute TRV is the 5th percentile of the SSD based on acute toxicity data for 21 amphibian species, divided by 2. Chronic TRV is the 5th percentile divided by an ACR of 3.22 for sensitive freshwater fish and invertebrate species.[b, c]
Lead	4	28	2.8	Acute TRV is the lowest toxicity value available, based on 7-day egg survival LC50 for the eastern narrow-mouthed toad, *Gastrophryne carolinensis* (Birge et al. 1978). Chronic TRV is the TSV divided by a factor of 10 (insufficient toxicity data for SSD development and no ACR or chronic toxicity data available).
Mercury	0.016	0.58	0.31	Acute TRV is the 5th percentile of SSD based on acute toxicity data for 12 amphibian species, divided by 2. Chronic TRV is the 5th percentile divided by an ACR of 3.731 for sensitive invertebrate species based on USEPA's AWQC document for mercury (USEPA 1985).[b]
Nickel	5	240	27	Acute TRV is the lowest LC50 for a 10-day subchronic exposure of *Rhinella renarum* embryos (480 µg/L) divided by 2 (Sztrum et al. 2011). The chronic TRV is the LC50 divided by the ACR of 17.99 from USEPA (1996).[b]
Silver	0.41	1.5	0.59	Acute TRV is the 5th percentile of the SSD based on acute toxicity data for 8 amphibian species, divided by 2. Chronic TRV is the 5th percentile divided by an ACR of 5.19 for sensitive freshwater fish and invertebrate species (HydroQual et al. 2007).[b]
Zinc	1	260	50	Acute TRV is the 5th percentile of SSD based on acute toxicity data for 10 amphibian species, divided by 2. Chronic TRV is the 5th percentile divided by an ACR of 10.5 for fish and invertebrate species (DeForest and Van Genderen 2012).[b]

[a] TRVs for all metals were converted to dissolved concentrations using USEPA CFs for national AWQC; all TRVs are for freshwater.

[b] An amphibian-specific ACR for was not available; selected ACR is assumed to be conservative but highly uncertain.

[c] The USEPA AWQC ACR for copper is based on three sensitive invertebrate species and two freshwater fish species.

[d] The USEPA AWQC ACR for mercury is based on two sensitive invertebrate species (a cladoceran and a mysid).

ACR – acute-to-chronic ratio
AWQC – ambient water quality criteria
CF – conversion factor
COPEC – chemical of potential ecological concern
LC50 – concentration that is lethal to 50% of an exposed population
SSD – species sensitivity distribution
TRV – toxicity reference value
TSV – toxicity screening value
USEPA – US Environmental Protection Agency

7.1.3 HQ Results

Table 7-3 presents the amphibian and reptile surface water HQs for the COPEC in the exposure area between RM 8.3 and RM 14.7. These COPECs are the same as those in the exposure area between RM 8.3 and RM 17.4, as no surface water data were collected between RM 14.7 and RM 17.4.

Table 7-3. Surface water HQs for amphibians

COPEC	HQ for RM 8.3 to RM 14.7[a]	
	Acute	Chronic
Metals[b]		
Chromium	0.00039	0.00057
Copper	0.65	**1.0**
Lead	0.30	**3.0**
Mercury	0.10	0.19
Nickel	0.0099	0.09
Silver	0.073	0.19
Zinc	0.032	0.17

Bold identifies HQs ≥ 1.0.
Shaded cells identify HQs ≥1 based on acute or chronic TRVs.

[a] HQs are based on UCLs presented in Table 7-1 and TRVs presented in Table 7-2. No surface water data were collected between RM 14.7 and RM 17.4.

[b] EPCs for all metals are based on the dissolved chemical form. TRVs are based on the total chemical form.

COPEC – chemical of potential ecological concern
EPC – exposure point concentration
HQ – hazard quotient
RM – river mile
TRV – toxicity reference value
UCL – upper confidence limit (on the mean)

7.1.4 Key uncertainties

The primary uncertainties associated with the amphibian and reptile risk characterization are discussed in the BERA.

7.1.5 Summary

HQs were < 1.0 for all but two of the surface water COPECs evaluated: copper and lead. These results differed from those for the entire LPRSA in the 17.4-mile LPRSA BERA, wherein no freshwater COPECs had HQs ≥ 1.0 for amphibians and reptiles in surface water.

7.2 SUMMARY OF RESULTS

The potential for risks to amphibians and reptiles was characterized using LPRSA chemistry data in the surface water LOE, wherein COPEC concentrations in surface water were compared to amphibian- and reptile-specific TRVs.

Seven surface water COPECs were evaluated for this receptor group. COPECs with HQs ≥ 1.0 were identified as preliminary COCs for the upper 9 miles of the LPRSA; two preliminary COCs (copper and lead) were identified based on the surface water LOE. As discussed in the BERA, limited amphibian- and reptile-specific water toxicity data are available, so the evaluation of risks to amphibians and reptiles is limited and uncertain.

8 Aquatic Plants

The evaluation of risks to aquatic plants in the LPRSA was based on a comparison of LPRSA surface sediment and surface water concentrations to plant-specific TRVs. As discussed in the BERA, the paucity and questionable applicability of both exposure and effects data, especially for the sediment evaluation, reduce the level of certainty for the quantitative estimates of risk to the aquatic plant community. Furthermore, the presence of aquatic vegetation in the LPRSA is limited by multiple non-chemical stressors, primarily the urbanization of shoreline areas, which reduces habitat quality and availability. Because plants are important components of the ecosystem, this assessment was included to make available a summary of information to evaluate potential impacts on aquatic plants from surface water- and sediment-associated chemicals. However, risk estimates from this assessment are highly uncertain and should be considered only qualitatively for the purposes of risk management conclusions and decisions.

8.1 SURFACE WATER ASSESSMENT

Aquatic plant COPECs evaluated as part of the BERA were determined using a two-step screening process. In the first step (conducted as part of the SLERA, Appendix A of the BERA), preliminary COPECs for surface water were identified as COIs with maximum concentrations exceeding TSVs that were protective of all aquatic life (i.e., benthic invertebrates, fish, and zooplankton). In the second step (conducted in Appendix O of the BERA), surface water COPECs were identified as those with maximum surface water concentrations that exceeded aquatic plant-specific TSVs.

After the screening process, a total of 11 surface water COPECs were identified for aquatic plants: cadmium, chromium, copper, lead, mercury, zinc, tributyltin (TBT), total PCBs, 2,3,7,8-TCDD, 4,4′-DDE, and cyanide. COPECs were evaluated by comparing LPRSA surface water EPCs to surface water TRVs specific to aquatic plants.

8.1.1 Exposure

Surface sediment EPCs for aquatic plants were calculated for one area: between RM 8.3 and RM 14.7, for comparison to both estuarine and freshwater thresholds. No surface water data were available in the exposure area between RM 14.7 and RM 17.4. Both near-bottom (3 ft [0.9 m] above the bottom) and near-surface (3 ft [0.9 m] below the surface) samples collected throughout the LPRSA during various flow events were used in EPC calculations.

Surface water EPCs were based on a conservative upper-bound estimate of the mean concentration (i.e., UCL concentration). UCLs were calculated using USEPA's ProUCL® statistical package (Version 5.0.00) (USEPA 2013), as described in the BERA. EPCs in surface water samples for aquatic plants are the same as those used for fish (Table 3-14).

8.1.2 Effects

As described in the BERA, aquatic plant-specific effects thresholds were developed based on toxicity data available from the USEPA ECOTOX (USEPA 2016c) database using an approach that was generally consistent with the AWQC methodology (Stephan et al. 1985). USEPA guidance regarding the interpretation of toxicity tests with plants is not well developed. Table 8-1 presents the aquatic plant surface water TRVs; uncertainty and details associated with the derivation of these TRVs are presented in the main text of the BERA.

Table 8-1. Aquatic plant-specific surface water TRVs

COPEC	Media	Chronic TRV (µg/L)[a]	TRV derivation method
Metals[b]			
Cadmium	saltwater	1.7	5th percentile of SSD based on chronic toxicity data for 23 species
	freshwater	5.2	5th percentile of SSD based on chronic toxicity data for 22 species
Chromium	saltwater	103	lowest SMV based on a 72-hr EC50 for an algae species (*Chlorella protothecoides*)
	freshwater	3.5	5th percentile of SSD based on toxicity data for 5 species
Copper	saltwater	4.1	5th percentile of SSD based on toxicity data for 40 species
	freshwater	1.7	5th percentile of SSD based on toxicity data for 44 species
Lead	saltwater	83	5th percentile of SSD based on toxicity data for 13 species
	freshwater	251	5th percentile of SSD based on toxicity data for 13 species
Mercury	saltwater	10.7	5th percentile of SSD based on toxicity data for 13 species
Zinc	saltwater	0.35	5th percentile of SSD based on toxicity data for 19 species
	freshwater	25	5th percentile of SSD based on toxicity data for 39 species
Butyltins			
TBT	saltwater	0.023	5th percentile of SSD based on toxicity data for 9 species
	freshwater	0.00052	lowest toxicity value based on a 96-hr EC50 for reduced population abundance of an algae species
PCBs			
Total PCBs	saltwater	0.10	lowest chronic LOEC based on a 5-day LOEL for reduced population abundance of marine phytoplankton; same value as intermediate screening TRV
Other			
Cyanide	saltwater	4.9	lowest chronic value based on a 20-day LOEL for reduced population abundance of an algae species; same value as intermediate TSV

[a] NOAEL TRVs were not developed for surface water; surface water TRVs were based on effects levels from the literature.

[b] TRVs for metals were based on the dissolved chemical form.

COPEC – chemical of potential ecological concern
EC50 – concentration that causes a non-lethal effect in 50% of an exposed population
LOEC – lowest-observed-effect concentration
LOEL – lowest-observed-effect level
NOAEL – no observed adverse effect level
PCB – polychlorinated biphenyl
SMV – species mean value
SSD – species sensitivity distribution
TBT – tributyltin
TRV – toxicity reference value
TSV – toxicity screening value

8.1.3 HQ Results

Table 8-2 presents the aquatic plant-specific surface water HQs for the COPECs in the exposure area between RM 8.3 and RM 14.7. These COPECs are the same as those in the exposure area between RM 8.3 and 17.4, as no surface water data were collected between RM 14.7 and 17.4.

Table 8-2. Aquatic plant-specific surface water HQs

COPEC	HQ for RM 8.3 to RM 14.7[a]	
	Estuarine	Freshwater
Metals		
Cadmium	0.016	0.0052
Chromium	0.011	0.31
Copper	**1.9**	**4.6**
Lead	0.10	0.033
Mercury	0.0056	not a COPEC
Zinc	**24**	0.33
Butyltins		
TBT	**2.2**	**96**
PCBs		
Total PCBs	0.22	not a COPEC
PCDD/PCDFs		
2,3,7,8-TCDD	na[a]	na[a]
4,4'-DDE	na[a]	na[a]
Other		
Cyanide	**2.9**	not a COPEC

Bold identifies HQs ≥ 1.0.

Shaded cells identify HQs ≥1 based on TRVs.

[a] HQs are based on EPCs presented in Table 3-14 and TRVs presented in Table 8-1. No surface water data were collected between RM 14.7 and RM 17.4.

[b] Toxicity data were not available to develop aquatic plant-specific TRVs, so no HQs were derived.

COPEC – chemical of potential ecological concern
DDE – dichlorodiphenyldichloroethylene
EPC – exposure point concentration
HQ – hazard quotient
na – not applicable
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxins
PCDF – polychlorinated dibenzofurans
RM – river mile
TBT – tributyltin
TCDD – tetrachlorodibenzo-*p*-dioxin
TRV – toxicity reference value

8.1.4 Key uncertainties

The primary uncertainties associated with the surface water risk characterization for aquatic plants are discussed in the BERA.

8.1.5 Summary

HQs were < 1.0 for all but four of the surface water COPECs evaluated: copper, zinc (estuarine area only), TBT, and cyanide (estuarine area only). The same four COPECs had HQs ≥ 1.0 for aquatic plants in the 17.4-mile LPRSA BERA.

8.2 SEDIMENT ASSESSMENT

A total of 13 COPECs were identified in sediment for aquatic plants in the BERA: antimony, arsenic, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, vanadium, zinc, and acenaphthene. These COPECs were evaluated by comparing sediment concentrations to soil TRVs specific to plants.

8.2.1 Exposure

All LPRSA surface sediment (0 to 15 cm deep) data, including both freshwater and estuarine data from each of the exposure areas (RM 8.3 to RM 17.4, RM 8.3 to RM 14.7, and RM 14.7 to RM 17.4), were evaluated to estimate aquatic plant exposure to sediment. Sediment EPCs were based on a conservative upper-bound mean estimate (i.e., UCL concentration). UCLs were calculated using USEPA's ProUCL® statistical package (Version 5.0.00) (USEPA 2013). EPCs in sediment for aquatic plants for each of the exposure areas evaluated are presented in Table 8-3.

Table 8-3. COPEC EPCs in sediment for aquatic plants

COPEC	Units	EPC		
		RM 8.3 to RM 17.4	RM 8.3 to RM 14.7	RM 14.7 to RM 17.4
Metals				
Antimony	mg/kg	1	1.1	3.3
Arsenic	mg/kg	7.6	6.5	6
Cadmium	mg/kg	5	5.4	1.1
Chromium	mg/kg	170	180	27
Cobalt	mg/kg	6.7	6.9	4.2
Copper	mg/kg	160	150	53.3
Lead	mg/kg	270	280	240
Mercury	µg/kg	2,700	2,900	1,700
Nickel	mg/kg	30	32	13
Selenium	mg/kg	0.74	0.77	0.37
Vanadium	mg/kg	26	24	13

Table 8-3. COPEC EPCs in sediment for aquatic plants

COPEC	Units	EPC		
		RM 8.3 to RM 17.4	RM 8.3 to RM 14.7	RM 14.7 to RM 17.4
Zinc	mg/kg	490	510	328
PAHs				
Acenaphthene	µg/kg	880	820	1,600

COPEC – chemical of potential ecological concern
EPC – exposure point concentration
PAH – polycyclic aromatic hydrocarbon
RM – river mile

8.2.2 Effects

As described in the BERA, because toxicity data for effects on aquatic plants exposed to contaminated sediment were not available, soil-based TRVs were used to develop risk estimates for sediment COPECs and aquatic plants. The questionable applicability of effects data for sediment reduces the level of certainty for the quantitative estimates of risk. These soil-based TRVs are based on USEPA's current ecological soil screening levels (Eco-SSLs) (USEPA 2010). Eco-SSLs represent a calculated geometric mean of toxicity values based on a review of soil toxicity data and terrestrial plants. If Eco-SSLs were not available for a particular COPEC, then the Oak Ridge National Laboratory (ORNL) soil screening benchmark from Efroymson et al. (1997) was selected. ORNL screening benchmarks represent the 10th percentile of LOAELs reported in the literature (or the lowest LOAEL available if limited data were available), which is considered conservative for the screening of chemicals in soil (Efroymson et al. 1997). These plant soil TRVs are presented in Table 8-4. Details and the uncertainty of these TRVs are discussed further in the main text of the BERA.

Table 8-4. Plant soil TRVs

COPEC	TRV (mg/kg dw)[a]	TRV source
Metals		
Antimony	5	ORNL screening benchmark based on unspecified, qualitative toxic effects in plants grown in surface soil from a single study; confidence in benchmark is low (Efroymson et al. 1997)
Arsenic	18	Eco-SSL based on geometric mean of MATCs (ranging from 4 to 69 mg/kg dw) for growth from 2 studies for 3 species (i.e., ryegrass, cotton, and rice) under different soil test conditions (pH and percent organic matter) (USEPA 2005a)
Cadmium	32	Eco-SSL based on geometric mean of MATCs (ranging from 9 to 79 mg/kg dw) for growth from 7 studies for 13 species (i.e., ryegrass, lettuce, tomato, oats, corn, garlic, barley, white pine, yellow birch, choke cherry, loblolly pine, red oak, and alfalfa) under different soil test conditions (pH and percent organic matter) (USEPA 2005a)

Table 8-4. Plant soil TRVs

COPEC	TRV (mg/kg dw)[a]	TRV source
Chromium	1	ORNL screening benchmark based on the approximate 10th percentile of growth LOECs reported for soybean, lettuce, tomato, and oats following exposure to hexavalent chromium in soil in 2 studies (LOECs ranging from 1.8 to 31 mg/kg dw); confidence in benchmark is low-moderate (Efroymson et al. 1997)
Cobalt	13	Eco-SSL based on geometric mean of EC20 values (ranging from 0.60 to 45 mg/kg dw) for growth from 1 study for 3 species (i.e., alfalfa, barley, and radish) under different test conditions (pH and percent organic matter) (USEPA 2005b)
Copper	70	Eco-SSL based on geometric mean of the MATC and EC10 values (ranging from 16 to 251 mg/kg dw) for reproduction or on growth from 6 studies for 4 species (i.e., black bindweed, citrus cultivar, perennial ryegrass, and alfalfa) under different soil test conditions (pH and percent organic matter) (USEPA 2007a)
Lead	120	Eco-SSL based on geometric mean of MATC values (ranging from 22 to 316 mg/kg dw) for growth from 3 studies for 4 species (i.e., loblolly pine, red maple, berseem clover, and ryegrass) under different soil test conditions (pH and percent organic matter) (USEPA 2005b)
Mercury	0.3	ORNL screening benchmark based on unspecified toxic effects on plants grown in surface soil from a secondary source (no primary reference data available); confidence in benchmark is low (Efroymson et al. 1997)
Nickel	38	Eco-SSL based on geometric mean of MATC and EC20 values (ranging from 7 to 177 mg/kg dw) for reproduction or on growth from 6 studies for 6 species (i.e., alfalfa, barley, brassica, red oak, ryegrass, and oat) under different soil test conditions (pH and percent organic matter) (USEPA 2007b)
Selenium	0.52	Eco-SSL based on the geometric mean of the MATC and EC20 values (ranging 0.1 to 1.6 mg/kg dw) for growth from 5 studies for 6 species (i.e., alfalfa, barley, brassica, raya, berseem, and cowpea) under different test conditions (pH and percent organic matter) (USEPA 2007d)
Vanadium	2	ORNL screening benchmark based on unspecified toxic effects on plants grown in surface soil from a secondary source (no primary reference data available); confidence in this benchmark is low (Efroymson et al. 1997)
Zinc	160	Eco-SSL based on geometric mean of MATC values (ranging from 143 to 185 mg/kg dw) for growth from 5 studies for 3 species (i.e., soybean, oats, and lettuce) under different soil test conditions (pH and percent organic matter) (USEPA 2007d)
Organic Compounds		
Acenaphthene	25	ORNL screening benchmark based on growth EC50 concentration reported for lettuce in loam soil (24% clay) following exposure in soil reported in single study; confidence in benchmark is low (Efroymson et al. 1997)

[a] NOAEL TRVs were not developed for soil and plants; plant soil TRVs were based on effects levels from the literature.

COPEC – chemical of potential ecological concern
dw – dry weight
EC10 – concentration that causes a non-lethal effect in 10% of an exposed population
Eco-SSL – ecological soil screening level
LOEC – lowest-observed-effect concentration
MATC – maximum acceptable toxicant concentration
NOAEL – no observed adverse effect level
ORNL – Oak Ridge National Laboratory

EC20 – concentration that causes a non-lethal effect in 20% of an exposed population

EC50 – concentration that causes a non-lethal effect in 50% of an exposed population

TRV – toxicity reference value

8.2.3 HQ Results

Table 8-5 presents the aquatic plant-specific sediment HQs for the COPECs in the three exposure areas evaluated: RM 8.3 to RM 17.4, RM 8.3 to RM 14.7, and RM 14.7 to RM 17.4.

Table 8-5. Aquatic plant-specific sediment HQs

COPEC	Units	HQ[a]		
		RM 8.3 to RM 17.4	RM 8.3 to RM 14.7	RM 14.7 to RM 17.4
Metals				
Antimony	mg/kg	0.20	0.22	0.66
Arsenic	mg/kg	0.42	0.36	0.33
Cadmium	mg/kg	0.16	0.17	0.034
Chromium	mg/kg	**170**	**180**	**27**
Cobalt	mg/kg	0.52	0.53	0.32
Copper	mg/kg	**2.3**	**2.1**	0.76
Lead	mg/kg	**2.3**	**2.3**	**2.0**
Mercury	µg/kg	**9.0**	**9.7**	**5.7**
Nickel	mg/kg	0.79	0.84	0.34
Selenium	mg/kg	**1.4**	**1.5**	0.71
Vanadium	mg/kg	**13**	**12**	**6.5**
Zinc	mg/kg	**3.1**	**3.2**	**2.1**
PAHs				
Acenaphthene	µg/kg	0.035	0.033	0.064

Bold identifies HQs ≥ 1.0.

Shaded cells identify HQs ≥1 based on acute or chronic TRVs.

[a] HQs based on EPCs presented in Table 8-3 and TRVs presented in Table 8-4.

COPEC – chemical of potential ecological concern

EPC – exposure point concentration

HQ – hazard quotient

PAH – polycyclic aromatic hydrocarbon

RM – river mile

UCL – upper confidence limit (on the mean)

8.2.4 Key uncertainties

The primary uncertainties associated with the sediment risk characterization for aquatic plants are discussed in the BERA.

8.2.5 Summary

HQs were > 1.0 for seven sediment COPECs: chromium, copper, lead, mercury, selenium, vanadium, and zinc. The same seven sediment COPECs had HQs ≥ 1.0 for aquatic plants in the 17.4-mile LPRSA BERA.

8.3 SUMMARY OF RESULTS

The potential for risk to aquatic plants was characterized using LPRSA surface sediment and surface water chemistry. Surface water and sediment data were compared to media-specific TRVs to derive risk estimates (HQs).

For the aquatic plant receptor group, 11 surface water COPECs and 13 sediment COPECs were evaluated. COPECs with HQs ≥ 1.0 were identified as preliminary COCs for aquatic plants for surface water and sediment for the upper 9 miles of the LPRSA. Seven preliminary COCs (chromium, copper, lead, mercury, selenium, vanadium, and zinc) were identified for aquatic plants based on the sediment LOE, and four preliminary COCs (copper, zinc [estuarine], TBT, and cyanide [estuarine]) were identified for aquatic plants based on the surface water LOE. As discussed in the BERA, all preliminary COCs for aquatic plants have high uncertainty. The paucity and questionable applicability of both exposure and effects data—especially for the sediment evaluation, which was based on terrestrial plants and soil—reduce the level of certainty for the quantitative estimates of risk to the aquatic plant community.

9 Summary and Conclusions

Differences between HQs in preliminary COCs identified in the 17.4-mile LPRSA BERA and this upper 9-mile evaluation are minimal. Generally, HQs were similar in range across receptor groups and LOEs, and the same preliminary COCs were identified, with some exceptions. These exceptions are discussed below.

In some cases, UCLs derived based on upper 9-mile data were slightly lower than those derived from the entire LPRSA in the BERA. As a result, several preliminary COC-receptor pairs that were identified in the BERA were not identified in this upper 9-mile evaluation (i.e., LOAEL HQs were < 1.0 based on data from the upper 9-mile segments):

- For the benthic invertebrate tissue LOE, methylmercury/mercury and silver were not identified in this upper 9-mile evaluation but were identified in the BERA.
- For the surface water LOE (for benthic invertebrates, fish, and zooplankton), copper was not identified in this upper 9-mile evaluation but was identified in the BERA.
- For the fish egg tissue LOE, methylmercury/mercury was not identified in this upper 9-mile evaluation but was identified in the BERA.
- For the bird diet LOE, total PCBs were not identified in this upper 9-mile evaluation but was identified in the BERA.

In other cases, UCLs derived based on upper 9-mile data were slightly higher than those derived from the entire LPRSA in the BERA. It should be noted that in some cases, limited data for smaller reaches resulted in the use of maximum values or less robust statistics to represent exposure concentrations. As a result, several new preliminary COC-receptor pairs were identified in this upper 9-mile evaluation BERA that were not identified in the BERA (i.e., LOAEL HQs were ≥ 1.0 based on data from the upper 9-mile segments):

- For the fish tissue LOE, selenium and cadmium were identified as preliminary COCs in this upper 9-mile evaluation but not in the BERA. LOAEL HQs were ≥ 1.0 based on data from the upper 9-mile segments for only two fish species: American eel (for cadmium) in exposure areas RM 8.3 to RM 14.7 and RM 14.7 to RM 17.4 (HQs = 1.1 to 1.2), and white perch (for selenium) in exposure areas RM 8.3 to RM 17.4 and RM 8.3 to RM 14.7 (HQs = 1.1 to 1.3).
- For the fish diet LOE, nickel was identified as a preliminary COC in this upper 9-mile evaluation but not in the BERA. LOAEL HQs were ≥ 1.0 based on data from the upper 9-mile segments for only three fish species: mummichog in exposure areas RM 8.3 to RM 17.4 and RM 8.3 to RM 14.7 (HQs = 1.0), American

eel in all three exposure areas (HQs = 1.1 to 1.2), and northern pike in exposure area RM 8.3 to RM 14.7 (HQ = 1.1).

- For the fish egg tissue LOE, PCDD/PCDF TEQ and total TEQ were identified as preliminary COCs in this upper 9-mile evaluation but not in the BERA. LOAEL HQs ranged from 1.1 to 1.7 for mummichog in exposure area RM 8.3 to RM 14.7. Only three mummichog tissue samples were available, so EPCs were based on maximum concentrations rather than on UCLs.
- For the mammal diet LOE, mercury and selenium were identified as preliminary COCs in this upper 9-mile evaluation but not in the BERA. LOAEL HQs were ≥ 1.0 for both species based on data from the upper 9-mile segments: mink (for mercury) in exposure area RM 8.3 to RM 14.7 (HQs = 1.0), river otter (for mercury) in all three exposure areas (HQs = 1.0 to 1.1), mink (for selenium) in exposure areas RM 8.3 to RM 17.4 and RM 8.3 to RM 14.7 (HQs= 1.1-1.3), and river otter (for selenium) in exposure areas RM 8.3 to RM 17.4 and RM 8.3 to RM 14.7 (HQs = 1.2 to 1.4).
- For the surface water LOE for amphibians, no preliminary COCs were identified in the BERA, but this upper 9-mile evaluation identified two preliminary COCs: copper (HQ = 1.0) and lead (HQ = 3.0).

The preliminary COCs for each assessment endpoint are presented in Table 9-1. Effect-level HQs for all preliminary COCs for the upper 9 miles of the LPRSA are presented in Table 9-2.

Table 9-1. Summary of ecological COPECs and preliminary COCs for the upper 9 miles of the LPRSA

Selected Receptor Group and Species Evaluated	LOE	COPECs[a]	Preliminary COCs for the Upper 9 Miles of the LPRSA Using a Range of TRVs[b]
Protection and maintenance (i.e., survival, growth, and reproduction) of the benthic invertebrate community, both as an environmental resource in itself and as one that serves as a forage base for fish and wildlife populations			
Benthic invertebrate community	SQT (benthic community metrics; toxicity test data; surface sediment chemistry)	not identified using the SQT analysis	No preliminary COCs were identified using the SQT analysis; however, SQT sampling locations were identified as follows: • No, low, or likely low impacts (indicative of insignificant benthic invertebrate risk) relative to urban reference conditions were observed at ~40% of the 49 SQT locations. • Likely or high impacts were observed at ~30% of the 49 SQT locations. • At ~29% of the SQT locations, medium impacts were observed, suggesting moderate risk (an uncertain result due to confounding factors).
Benthic invertebrates (including benthic invertebrate community, macroinvertebrates, and mollusks)	surface water	cadmium, chromium, copper, lead, mercury, selenium silver, zinc, TBT (estuarine), anthracene, benzo(a)anthracene, benzo(a)pyrene, fluoranthene, pyrene, BEHP, BBP, total PCBs, 2,3,7,8-TCDD, 4,4′-DDE, 4,4′-DDT, dieldrin (estuarine), hexachlorobenzene, total chlordane, total DDx, cyanide	2,3,7,8-TCDD (estuarine), cyanide
Protection and maintenance (i.e., survival, growth, and reproduction) of healthy populations of benthic invertebrates (worms, blue crab and crayfish, and bivalve mussels) that serve as a forage base for fish and wildlife populations and as a base for sports fisheries			
Benthic invertebrates (worms, blue crab, and caged mussels)	tissue	arsenic, cadmium, chromium, cobalt, copper, lead, mercury, methylmercury, nickel, selenium, silver, vanadium, zinc, total LPAHs, total HPAHs, total PCBs, PCB TEQ - fish, 2,3,7,8-TCDD, PCDD/PCDF TEQ - fish, total TEQ - fish, dieldrin, heptachlor expoxide, total DDx	arsenic,[c] chromium,[c] copper,[c] lead,[c] nickel,[c] selenium, HPAHs, total PCBs, 2,3,7,8-TCDD, PCDD/PCDF TEQ - fish, total TEQ - fish, total DDx

Table 9-1. Summary of ecological COPECs and preliminary COCs for the upper 9 miles of the LPRSA

Selected Receptor Group and Species Evaluated	LOE	COPECs[a]	Preliminary COCs for the Upper 9 Miles of the LPRSA Using a Range of TRVs[b]
Protection and maintenance (i.e., survival, growth, and reproduction) of omnivorous, invertivorous, and piscivorous fish populations that serve as a forage base for fish and wildlife populations and as a base for sports fisheries			
Fish populations (mummichog/other forage fish, common carp, white perch, channel catfish, white catfish, brown bullhead, American eel, largemouth bass, smallmouth bass, and northern pike)	tissue	arsenic, cadmium, chromium, copper, lead, methylmercury, selenium, silver, zinc, total HPAHs, total LPAHs, total PCBs, PCB TEQ - fish, 2,3,7,8-TCDD, PCDD/PCDF TEQ - fish, total TEQ - fish, dieldrin, endosulfan I, total DDx	cadmium[c], copper [c], methylmercury/mercury, selenium, total PCBs, 2,3,7,8-TCDD, PCB TEQ - fish, PCDD/PCDF TEQ - fish, total TEQ - fish, dieldrin, total DDx
	diet	cadmium, chromium, cobalt, copper, mercury methyl mercury, nickel, selenium, vanadium, zinc, TBT, total PAHs, benzo(a)pyrene, total PCBs, PCT TEQ - fish, PCDD/PCDF TEQ-fish, total TEQ - fish, total DDx	cadmium, nickel, mercury, PCB TEQ - fish, PCDD/PCDF TEQ-fish, total TEQ – fish
	surface water	cadmium, chromium, copper, lead, mercury, selenium, silver, zinc, TBT (estuarine), anthracene, benzo(a)anthracene, benzo(a)pyrene, fluoranthene, pyrene, BEHP, BBP, total PCBs, PCB TEQ - fish, 2,3,7,8-TCDD, PCDD/PCDF TEQ - fish, total TEQ - fish, 4,4′-DDE, 4,4′-DDT, dieldrin (estuarine), hexachlorobenzene, total chlordane, total DDx, cyanide	cyanide
	egg tissue (mummichog)	mercury, methylmercury, total PCBs, PCDD/PCDF TEQ - fish, total TEQ - fish	total PCBs, PCDD/PCDF TEQ and total TEQ
	mummichog egg count	none identified based on qualitative LOE; see BERA for details	none identified based on qualitative LOE; see BERA for details
	health assessment	none identified based on qualitative LOE; see BERA for details	none identified based on qualitative LOE; see BERA for details

Table 9-1. Summary of ecological COPECs and preliminary COCs for the upper 9 miles of the LPRSA

Selected Receptor Group and Species Evaluated	LOE	COPECs[a]	Preliminary COCs for the Upper 9 Miles of the LPRSA Using a Range of TRVs[b]
Protection and maintenance (i.e., survival, growth, and reproduction) of herbivorous, omnivorous, sediment-probing, and piscivorous bird populations			
Bird populations (spotted sandpiper, belted kingfisher, and great blue heron)	diet	cadmium, chromium, copper, lead, methylmercury, nickel, selenium, vanadium, zinc, total LPAHs, total HPAHs, total PCBs, PCB TEQ - bird, PCDD/PCDF TEQ - bird, total TEQ - bird, total DDx	copper, lead, methylmercury, total HPAHs, PCB TEQ - bird, PCDD/PCDF TEQ - bird, total TEQ - bird, total DDx
	egg tissue	methylmercury/mercury, total PCBs, PCB TEQ - bird, PCDD/PCDF TEQ - bird, total TEQ - bird, total DDx, dieldrin	total PCBs, PCDD/PCDF TEQ - bird, total TEQ - bird, PCB TEQ - bird, total DDx
Protection and maintenance (i.e., survival, growth, and reproduction) of aquatic mammal populations			
Mammal populations (river otter and mink)	diet	arsenic, cadmium, copper, lead, methylmercury/mercury, nickel, selenium, vanadium, and zinc, total HPAHs, total PCBs, PCB TEQ - mammal, PCDD/PCDF TEQ - mammal, total TEQ - mammal, dieldrin	mercury, selenium, total PCBs, PCB TEQ - mammal, PCDD/PCDF TEQ - mammal, total TEQ – mammal
Maintenance of the zooplankton community that serves as a food base for juvenile fish			
Zooplankton community	surface water	cadmium, chromium, copper, lead, mercury, selenium, silver, zinc, TBT (estuarine), anthracene, benzo(a)anthracene, benzo(a)pyrene, fluoranthene, pyrene, BEHP, BBP, total PCBs, 2,3,7,8-TCDD, 4,4′-DDE, 4,4′-DDT, dieldrin (estuarine), hexachlorobenzene, total chlordane, total DDx, cyanide	cyanide
Protection and maintenance (i.e., survival, growth, and reproduction) of healthy amphibian and reptile populations			
Amphibians and reptile populations (multiple species represented)	surface water	chromium, copper, lead, mercury, nickel, silver, zinc	copper and lead

Table 9-1. Summary of ecological COPECs and preliminary COCs for the upper 9 miles of the LPRSA

Selected Receptor Group and Species Evaluated	LOE	COPECs[a]	Preliminary COCs for the Upper 9 Miles of the LPRSA Using a Range of TRVs[b]
Maintenance of healthy aquatic plant populations as a food resource and habitat for fish and wildlife populations			
Aquatic plant populations (multiple species represented)	sediment	antimony, arsenic, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, vanadium, zinc, and acenaphthene	chromium, copper, lead, mercury, selenium, vanadium, and zinc
	surface water	cadmium, chromium, copper, lead, mercury (estuarine), zinc, TBT, total PCBs (estuarine), 2,3,7,8-TCDD, 4,4'-DDE, cyanide (estuarine)	copper, zinc (estuarine), TBT, cyanide (estuarine)

[a] As presented and discussed in the BERA, COPECs are those COIs for which the maximum concentration exceeded its TSV in the SLERA. If a TSV was exceeded based on any species in a receptor group, it was retained as a COPEC for all species in that receptor group. COPECs for surface water are for both estuarine (RM 8.3 to RM 13) and freshwater (RM 8.3 to RM 17.4) unless noted otherwise.

[b] Preliminary COCs are those COPECs with HQs ≥ 1.0 based on any LOE and effect-level concentration (i.e., HQ ≥ 1.0 [or EF] based on a range of LOAELs for tissue and diet LOEs, HQ ≥ 1.0 based on acute or chronic surface water TRVs; HQ ≥ 1.0 based on plant-specific sediment TRVs).

[c] Preliminary COCs for regulated metals based on the tissue residue LOE were based on EFs rather than HQs.

BBP – butyl benzyl phthalate
BEHP – bis(2-ethylhexyl) phthalate
BERA – baseline ecological risk assessment
COC – chemical of concern
COI – chemical of interest
COPEC – chemical of potential concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
EF – exceedance factor
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
LOE – line of evidence
LPAH – low-molecular-weight polycyclic aromatic hydrocarbon
LPRSA – Lower Passaic River Study Area
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF –polychlorinated dibenzofuran
RM – river mile
SLERA – screening-level ecological risk assessment
SQT – sediment quality triad
TBT – tributyltin
TCDD – tetrachlorodibenzo-*p*-dioxin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value
TSV – toxicity screening value

Table 9-2. Summary of LOAEL HQs for preliminary COCs for the upper 9 miles of the LPRSA

	Risk Results (Range of HQs/EFs[a])						
Preliminary COC	**Benthic Invertebrates**	**Fish**	**Birds**	**Mammals**	**Aquatic Plants**	**Zooplankton**	**Amphibians**
Metals							
Arsenic	tissue: worm (1.6)	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*
Cadmium	*no unacceptable risk*	tissue: American eel (0.81–1.2) diet: mummichog (0.98–1.5); common carp (0.69–1.2); channel catfish (0.58–1.0); white catfish (0.59–1.0); white perch (0.95–1.3); white sucker (0.79–1.2); American eel (0.55–1.4)	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*
Chromium	tissue: worm (11); mussel (0.16–2.9)	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*	sediment: (27–180)	*no unacceptable risk*	*no unacceptable risk*
Copper	tissue: blue crab (2.4)	tissue: mummichog (2.5), other forage fish (2.5–2.7), white perch (5.1–8.0), channel catfish (0.42–1.4), American eel (1.0–4.7)	diet: spotted sandpiper (0.44–2.2); belted kingfisher (0.25–1.1)	*no unacceptable risk*	sediment: (0.76–2.3) surface water: (estuarine: 1.9; freshwater: 4.6)	*no unacceptable risk*	surface water: (freshwater: 1.0)
Lead	tissue: worm (0.21–3.2)	*no unacceptable risk*	diet: spotted sandpiper (0.66–11); belted kingfisher (0.0084–1.3)	*no unacceptable risk*	sediment: (2.0–2.3)	*no unacceptable risk*	surface water: (freshwater: 3.0)

Table 9-2. Summary of LOAEL HQs for preliminary COCs for the upper 9 miles of the LPRSA

	Risk Results (Range of HQs/EFs[a])						
Preliminary COC	**Benthic Invertebrates**	**Fish**	**Birds**	**Mammals**	**Aquatic Plants**	**Zooplankton**	**Amphibians**
Methylmercury/ mercury	*no unacceptable risk*	tissue: American eel (0.54–1.0); largemouth bass (0.40–2.6); smallmouth bass (0.46–1.2); white catfish (0.69–1.3) diet: mummichog (0.011–1.3)	diet: great blue heron (0.049–1.1)	diet: mink (0.062–1.0); river otter (0.11–1.1)	sediment: (5.7–9.7)	*no unacceptable risk*	*no unacceptable risk*
Nickel	tissue: worm (21); mussel (0.23–6.9)	diet: mummichog (0.99–1.0), American eel (0.55–1.2), northern pike (0.38–1.1)	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*
Selenium	tissue: worm (1.3); blue crab (1.0)	tissue: white perch (0.52–1.3)	*no unacceptable risk*	diet: mink (0.087–1.3); river otter (0.13–1.4)	sediment: (0.71–1.5)	*no unacceptable risk*	*no unacceptable risk*
Vanadium	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*	sediment: (6.5–13)	*no unacceptable risk*	*no unacceptable risk*
Zinc	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*	sediment: (2.1–3.2) surface water: (estuarine: 24)	*no unacceptable risk*	*no unacceptable risk*
Butyltin							
TBT	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*	surface water: (estuarine: 2.2; freshwater: 96)	*no unacceptable risk*	*no unacceptable risk*

Table 9-2. Summary of LOAEL HQs for preliminary COCs for the upper 9 miles of the LPRSA

	Risk Results (Range of HQs/EFs[a])						
Preliminary COC	**Benthic Invertebrates**	**Fish**	**Birds**	**Mammals**	**Aquatic Plants**	**Zooplankton**	**Amphibians**
PAHs							
HPAHs	tissue: worms (0.081–2.7)	*no unacceptable risk*	diet: spotted sandpiper (4.8–5.6)	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*
PCBs							
Total PCBs	tissue: worm (0.13–17), blue crab (0.56–17) , mussels (0.033–1.8)	tissue: mummichog (0.19–1.3), other forage fish (0.13–1.2), white perch (0.26–6.6), channel catfish (0.45–4.5), brown bullhead (0.16–1.1), American eel (0.32–2.6), largemouth bass (0.55–15), common carp (0.45–11), northern pike (0.53–3.8), smallmouth bass (0.26–2.6), white catfish (0.84–7.2), white sucker (0.22–5.5)	diet: spotted sandpiper (0.065–0.61), great blue heron (0.075–0.96); belted kingfisher (0.20–0.72)	diet: mink (0.53–3.4); river otter (0.62–4.1)	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*
		diet: northern pike (0.67–2.2), American eel – large (0.5–1.5)					
		egg tissue: mummichog (2.5–20)	egg tissue: great blue heron (0.15–240); belted kingfisher (0.47–61)				

Table 9-2. Summary of LOAEL HQs for preliminary COCs for the upper 9 miles of the LPRSA

	Risk Results (Range of HQs/EFs[a])						
Preliminary COC	**Benthic Invertebrates**	**Fish**	**Birds**	**Mammals**	**Aquatic Plants**	**Zooplankton**	**Amphibians**
PCB TEQ	*no unacceptable risk*	tissue: white perch (0.010–1.3), channel catfish (0.015–1.4); largemouth bass (0.018–9.4), common carp (0.016–2.8), northern pike (0.019–1.3), white catfish (0.028–2.4), white sucker (0.011–1.8)	diet: spotted sandpiper (0.081–2.1); great blue heron (0.081–1.2), belted kingfisher (0.26–1.5)	diet: mink (0.085–1.0); river otter (0.21–1.2)	*not evaluated*	*not evaluated*	*not evaluated*
		diet: white perch (0.70–1.0); American eel (0.59–2.1); largemouth bass (1.5); smallmouth bass (1.4); northern pike (1.5–2.7)	egg tissue: great blue heron (1.8–26); belted kingfisher (1.2–11)				
PCDD/PCDFs							
2,3,7,8-TCDD	surface water (estuarine: 0.00082–1.2)	tissue: mummichog (0.83–56), other forage fish (0.13–32), common carp (0.38–320), white perch (0.52–100), channel catfish: (0.80–78), brown bullhead (0.68–45), white catfish (1.3–130), white sucker (0.092–72), American eel (0.012–17), largemouth bass (0.0036–100), northern pike (0.79–53), smallmouth bass (0.067–42)	*not evaluated*	*not evaluated*	*no unacceptable risk*	*no unacceptable risk*	*not evaluated*
	tissue: worm (0.00017–30); blue crab (0.018–41); mussel (0.000026–2.8)						

Table 9-2. Summary of LOAEL HQs for preliminary COCs for the upper 9 miles of the LPRSA

	Risk Results (Range of HQs/EFs[a])						
Preliminary COC	**Benthic Invertebrates**	**Fish**	**Birds**	**Mammals**	**Aquatic Plants**	**Zooplankton**	**Amphibians**
PCDD/ PCDF TEQ	tissue: worm (0.00032–31), blue crab (0.019–44), mussel (0.000057–2.8)	tissue: mummichog (0.83–56), other forage fish (0.15–33), common carp (0.43–330), white perch (0.54–110) channel catfish (0.83–83), brown bullhead (0.71–47), white catfish (1.4–130), white sucker (1.1–72), American eel (0.028–18); largemouth bass (0.017–100), northern pike (0.83–56) smallmouth bass (0.072–42)	diet: spotted sandpiper (0.014–3.7), great blue heron (0.029–1.0), belted kingfisher (0.21–1.9)	diet: mink: (0.28–7.2), river otter (0.55–8.6)	*not evaluated*	*not evaluated*	*not evaluated*
		diet**:** mummichog (2.4–190), common carp (16–180), white perch (32–190), channel catfish (19–180), white catfish (20–180), white sucker (12–170), American eel (24–220) largemouth bass (52–170) smallmouth bass (48–160), northern pike (63–210)	egg tissue: great blue heron (0.64–22), belted kingfisher (0.99–14)				
		egg tissue: mummichog (1.0–1.7)					

Table 9-2. Summary of LOAEL HQs for preliminary COCs for the upper 9 miles of the LPRSA

	Risk Results (Range of HQs/EFs[a])						
Preliminary COC	**Benthic Invertebrates**	**Fish**	**Birds**	**Mammals**	**Aquatic Plants**	**Zooplankton**	**Amphibians**
Total TEQ	tissue: worm (0.00033–31), blue crab (0.019–44), mussel (0.000063–2.8)	tissue: mummichog: (0.83–56), other forage fish: (0.16–33), common carp: (0.44–330), white perch: 0.56–110), channel catfish: (0.83–83), brown bullhead: (0.72–48), white catfish: (1.4–130), white sucker: (0.12–72), American eel: (0.038–18), largemouth bass: (0.16–100), northern pike: (0.92–61), smallmouth bass: (0.082–46)	diet: spotted sandpiper (0.096–5.3), great blue heron (0.12–2.2), belted kingfisher (0.46–3.0)	diet: mink (0.36–7.8), river otter (0.73–9.4)	*not evaluated*	*not evaluated*	*not evaluated*
		diet: mummichog (2.5–190), common carp (16–180), white perch (32–190), channel catfish (20–170), white catfish (20–170), white sucker (12–170), American eel (24–200) largemouth bass (54–170) smallmouth bass (49–160), northern pike (62–210)	egg tissue: great blue heron (2.8–48), belted kingfisher (2.2–23)				
		egg tissue: mummichog (1.0–1.7)					
Pesticides							
Total DDx	tissue: worm: (0.042–2.0), blue crab (0.42–5.4)	tissue: common carp (0.25–1.7), white catfish (0.77–1.2)	diet: spotted sandpiper (0.019–0.69); great blue heron (0.040–1.4); belted kingfisher (0.13–1.5)	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*
			egg tissue: great blue heron (0.27–9.9); belted kingfisher (0.73–3.6)				

Table 9-2. Summary of LOAEL HQs for preliminary COCs for the upper 9 miles of the LPRSA

	Risk Results (Range of HQs/EFs[a])						
Preliminary COC	**Benthic Invertebrates**	**Fish**	**Birds**	**Mammals**	**Aquatic Plants**	**Zooplankton**	**Amphibians**
Dieldrin	*no unacceptable risk*	tissue: common carp (0.24–1.4), channel catfish (0.24–1.4), American eel (0.23–2.8), largemouth bass (0.080–1.0), white catfish (0.14–1.2), northern pike (0.22–1.1)	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*	*no unacceptable risk*	*not evaluated*
Other							
Cyanide	surface water (estuarine: 2.3–7.4; freshwater: 0.43–1.9)	surface water: (estuarine: 2.3–7.4; freshwater: 0.43–1.9)	*not evaluated*	*not evaluated*	surface water: (estuarine: 2.9)	surface water: (estuarine: 2.3–7.4; freshwater: 0.43–1.9)	*not evaluated*

Note – Preliminary COCs are identified as those COPECs with HQs ≥ 1.0 based on any LOE and effect-level concentration (i.e., HQ ≥ 1.0 based on a range of LOAELs for tissue and diet LOEs, HQ ≥ 1.0 based on acute or chronic surface water TRVs; HQ ≥ 1.0 based on plant-specific sediment TRVs).

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

BERA – baseline ecological risk assessment
COC – chemical of concern
COPEC – chemical of potential concern
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
HPAH – high-molecular-weight polycyclic aromatic hydrocarbon
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
LOE – line of evidence
LPRSA – Lower Passaic River Study Area
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF –polychlorinated dibenzofuran
TBT – tributyltin
TCDD – tetrachlorodibenzo-*p*-dioxin
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value

As discussed in the BERA, the results of the ecological risk calculations will be used in the feasibility study (FS) as a tool for risk managers to make potential remedial decisions for the LPRSA. The BERA for the entire 17.4-mile LPRSA identified key chemicals (called ecological risk drivers) for further evaluation in the FS following an evaluation of background concentrations (USEPA 2016d) and the uncertainty of the assessment for each preliminary COC identified. Ecological risk drivers identified in the BERA included the following:

- 2,3,7,8-TCDD
- PCDD/PCDF TEQ (fish, bird, and mammal)
- Total TEQ (fish, bird, and mammal)
- Total PCBs
- PCB TEQ (fish, bird, and mammal)
- Total DDx

The above-listed risk drivers were identified in the BERA based on effect-level HQs exceeding 1.0 for various ecological receptor groups and LOEs. Some LOEs are more certain than others and should be evaluated prior to making any management decisions.

Differences in HQs for risk drivers from the 17.4-mile LPRSA BERA and this upper 9-mile evaluation were minimal; generally, HQs were similar or slightly lower. In addition, HQs were < 1.0 in the upper segment exposure area (from RM 14.7 to RM 17.4) for some risk driver-receptor group pairs (i.e., benthic invertebrate tissue-TEQs, bird diet-TEQs, and fish tissue-DDx). Table 9-3 presents a summary of the risk drivers, including a summary of HQs from both the BERA (for the entire LPRSA) and this upper 9-mile evaluation (RM 8.3 to 17.4, RM 8.3 to RM 14.7, and RM 14.7 to RM 17.4) and considerations for risk management decisions regarding the assumptions used to derive HQs.

Table 9-3. Considerations for risk management on ecological risk drivers

Risk Driver and LOE	BERA Results – RM 0 to RM 17.4		Upper 9-Mile Evaluation – RM 8.3 to RM 17.4. RM 8.3 to RM 14.7, and RM 14.7 to 17.4		Risk Management Considerations
	LOAEL HQ[a,b] Based on TRV-A[c]	LOAEL HQs[a,b] Based on TRV-B[d]	LOAEL HQ[a,b] Based on TRV-A[c]	LOAEL HQs[a,b] Based on TRV-B[d]	
Benthic invertebrate community	No risk drivers were identified using the SQT analysis; however, SQT locations with impacts were identified as follows: • No, low, or likely low impacts (indicative of insignificant benthic invertebrate risk) relative to urban reference conditions were observed at ~37% of the 97 SQT locations. • Likely or high impacts were observed at ~31% of the 97 SQT locations. • At ~32% of the SQT locations, risk was unclear (medium impact). Medium impacts may also suggest moderate chemical risk.		On a location-by-location basis, there was no difference between the upper 9-Mile evaluation and the BERA. No risk drivers were identified using the SQT analysis; however, SQT locations with impacts were identified as follows: • No, low, or likely low impacts (indicative of insignificant benthic invertebrate risk) relative to urban reference conditions were observed at ~40% of the 49 SQT locations. • Likely or high impacts were observed at ~30% of the 49 SQT locations. • At ~29% of the SQT locations, risk was unclear (medium impact). Medium impacts may also suggest moderate chemical risk.		• The reference area chemistry and toxicity screens were conservative, which resulted in a dataset that may not represent realistic reference conditions. The quantitative analysis of uncertainty provides an alternative screening process; see Appendix P of the BERA. • The sediment chemistry LOE was conservative and potentially unreliable for predicting actual effects in the LPRSA. The quantitative analysis of uncertainty provides an alternative chemistry LOE; see Appendix P of the BERA. • The comparison of LPRSA SQT data to non-urban reference data was less relevant than the comparison of LPRSA data to urban reference data. Effects in the LPRSA associated with its urban setting were not addressed by the comparison of LPRSA SQT data to non-urban reference data. • Medium-impact conclusions of the SQT WOE analysis were uncertain because of disagreement among or within LOEs. The quantitative analysis of uncertainty attempts to address these uncertainties; see Appendix P of the BERA. Moderate effects are possible at medium-impact locations. • Impacts at freshwater LPRSA SQT locations LPRT17A and LPRT17D were potentially influenced (at least in part) by differences between habitat conditions immediately below Dundee Dam and those in the area above Dundee Dam. The area above the dam has finer sediments than the area just below, which is predominately composed of coarse sand and cobble. In general, such sediments are not expected to have elevated sediment contamination.
Total PCBs					
Benthic invertebrate tissue	0.046–0.67 (mussels, worm, and blue crab)	**1.4**–**21** (mussels, worm, and blue crab)	0.033–0.56 (mussels, worm, and blue crab)	**1.0**–**17** (mussels, worm, and blue crab)	• TRV-A based on an SSD value less than lowest measured LOAEL; TRV-A results in HQs < 1.0 • TRV-B based on whole-body tissue concentrations interpolated from measured egg tissue concentrations • Upper 9-mile evaluation based on maximum mussel data (n = 1–5 samples per exposure area) and blue crab tissue data (n = 0–2 samples per exposure area)
Fish tissue	0.14–**2.1** (all LPRSA fish species evaluated)	**1.0**–**15** (all LPRSA fish species evaluated)	0.13–**2.1** (all LPRSA fish species evaluated)	0.91–**15** (all LPRSA fish species evaluated)	• TRV-A based on an SSD value less than lowest measured LOAEL • TRV-B based on changes in smolt seawater preference in Atlantic salmon • Entire LPRSA EPC for largemouth bass based on maximum tissue concentration due to small sample size (n = 3)
Fish diet	**1.3** (northern pike)	ne	0.67**–2.2** (northern pike); 0.5–**1.5** (American eel – large)	ne	• LOAEL based on fecundity (number of eggs per female), but no significant reduction of egg weight or hatching rate was reported.
Fish egg	**2.2–3.6** (mummichog)	**11–18** (mummichog)	**2.5–4.0** (mummichog)	**13–20** (mummichog)	• TRV-A and TRV-B based on same literature source; TRV-A based on observed adverse effect on reproduction (reduced hatchability), and TRV-B based on reduced fecundity but no effect on egg weight or hatchability • Mummichog egg concentration modeled using literature-based CFs and LPRSA mummichog-specific lipid content • Upper 9-mile evaluation based on maximum mummichog modeled concentration from RM 8.3 to RM 14.7 (n = 3 samples)
Bird diet	0.031–0.70 (spotted sandpiper, great blue heron)	0.11–**1.2** (spotted sandpiper, great blue heron)	0.061–0.34 (all bird species evaluated)	0.17–0.96 (all bird species evaluated)	• TRV-A based on non-chicken reproduction; TRV-A results in HQs < 1.0 • TRV-B based on interpolated value from chicken hatchability data • Low HQs and HQs < 1.0 conflicted with bird egg LOE, which relied on literature-based BMFs to estimate egg tissue concentrations
Bird egg	0.078–**1.0** (great blue heron and belted kingfisher)	**1.0**–**284** (great blue heron and belted kingfisher)	0.15–0.86 (great blue heron and belted kingfisher)	**1.8**–**240** (great blue heron and belted kingfisher)	• TRV-A based on non-chicken reproduction and limited dataset (2 studies) • TRV-B based on interpolated value from chicken hatchability data • Uncertainty associated with use of literature-based BMFs to predict bird egg concentrations; species-specific BMF for heron and kingfisher based heron and kingfisher data, respectively, for comparison to TRV-A, and range of BMFs evaluated for comparison to TRV-B • High bird egg HQs based on TRV-B conflicted with bird diet LOE

Table 9-3. Considerations for risk management on ecological risk drivers

Risk Driver and LOE	BERA Results – RM 0 to RM 17.4		Upper 9-Mile Evaluation – RM 8.3 to RM 17.4. RM 8.3 to RM 14.7, and RM 14.7 to 17.4		Risk Management Considerations
	LOAEL HQ[a,b] Based on TRV-A[c]	LOAEL HQs[a,b] Based on TRV-B[d]	LOAEL HQ[a,b] Based on TRV-A[c]	LOAEL HQs[a,b] Based on TRV-B[d]	
Mammal diet	0.94–**3.2** (mink and river otter)	**1.1**–**3.7** (mink and river otter)	0.53–**3.5** (mink and river otter)	0.62–**4.1** (mink and river otter)	• TRV-A and TRV-B based on same literature source with slightly different ingestion rates and body weight assumptions used to derive TRV • HQ based on range of dietary scenarios and exposure areas; mink HQs lower based on consumption of aquatic prey and assuming zero exposure from terrestrial prey
PCB TEQ					
Fish tissue	0.014–0.037 (0.010-0.74) (common carp, white perch, channel catfish, white catfish, white sucker, largemouth bass, northern pike)	**1.0**–**9.4** (common carp, white perch, channel catfish, white catfish, white sucker, largemouth bass, northern pike)	0.010–0.14 (0.078–0.74) (common carp, white perch, channel catfish, white catfish, white sucker, largemouth bass, northern pike)	0.70–**9.4** (common carp, white perch, channel catfish, white catfish, white sucker, largemouth bass, northern pike)	• TRV-A based on SSD within range of measured LOAELs evaluated; TRV-A results in HQs < 1.0 • Alternative TRV-A based on SSD with relatively poor visual and statistical fit to the empirical data and likely over-predicts risk; alternative SSD less than lowest measured LOAEL • TRV-B based on interpolated larvae concentration from egg tissue
Fish diet	**1.5**–**2.1** (American eel - large, largemouth bass, smallmouth bass, northern pike)	ne	0.59–**2.7** (white perch, American eel, largemouth bass, smallmouth bass, northern pike)	ne	• LOAEL TRV 2 orders of magnitude less than LOAELs reported for 2 other species
Bird diet	0.030–0.78 (all bird species evaluated)	0.13–**3.9** (all bird species evaluated)	0.081-0.42 (all bird species evaluated)	0.40–**2.1** (all bird species evaluated)	• TRV-A and TRV-B based on same literature source based on weekly injection of pheasants; TRV-A results in HQs < 1.0 • TRV-B extrapolated from study using interspecies extrapolation factor of 5 • High variability of bird TEFs and differences among species sensitivities to dioxin-like compounds • Low HQs and HQs < 1.0 conflicted with bird egg LOE, which relied on literature-based BMFs to estimate egg tissue concentrations
Bird egg	0.46–**7.2** (great blue heron and belted kingfisher)	0.57–**36** (great blue heron and belted kingfisher)	**1.2-5.2** (great blue heron and belted kingfisher)	**1.8**–**26** (great blue heron and belted kingfisher)	• TRV-A based on SSD with no chicken reproduction data (SSD not expected to have changed significantly with inclusion of chicken data) • TRV-B based on SSD inclusive of chicken reproduction data • TEQ sensitivities varied with Ah receptor; chickens in high-sensitivity group and great blue heron in low-sensitivity group • Uncertainty associated with use of literature-based BMFs to predict bird egg concentrations; species-specific BMF for heron and kingfisher based on heron and kingfisher data, respectively, for comparison to TRV-A, and range of BMFs evaluated for comparison to TRV-B • High bird egg HQs conflicted with bird diet LOE
Mammal diet	0.12–0.34 (mink and river otter)	0.49–**1.4** (mink and river otter)	0.085–0.31 (mink and river otter)	0.34–**1.2** (mink and river otter)	• TRV-A based on mink fed laboratory-prepared diet and TRV-B based on mink fed field-collected carp; TRV-A results in HQs < 1.0 • HQ based on range of dietary scenarios and exposure areas; mink HQs lower based on consumption of aquatic prey and assuming zero exposure from terrestrial prey
PCDD/PCDF and total TEQ					
Benthic invertebrate tissue	0.00077–0.021 (PCDD/PCDF TEQ; worm, blue crab and mussels) 0.00077–0.021 (total TEQ; worm, blue crab and mussels)	**1.8**–**48** (PCDD/PCDF TEQ; worm, blue crab and mussels) **1.8**–**48** (total TEQ; worm, blue crab and mussels)	0.000057–0.019 (PCDD/PCDF TEQ; worm, blue crab and mussels) 0.000063–0.019 (total TEQ; worm, blue crab and mussels)	0.13–**44** (PCDD/PCDF TEQ; worm, blue crab and mussels) 0.15–**44** (total TEQ; worm, blue crab and mussels)	• TRV-A based on injected (not measured) concentration in crayfish; TRV-A results in HQs < 1.0 • TRV-B based on uncontrolled field data and limited sample size (n = 1 tissue composite); LOAEL based on relative reduction at Arthur Kill site compared to Sandy Hook site • Evaluation as TEQ (based on fish TEFs) questionable for invertebrates because of limited evidence for ligand activation of the Ah (dioxin) cellular receptor in these organisms (i.e., they were not susceptible to the dioxin-like effects reported for vertebrates) (Van den Berg et al. 1998). • Upper 9-mile evaluation based on maximum mussel data (n = 1–5 samples per exposure area) and blue crab tissue data (n = 0–2 samples per exposure area) • HQs < 1.0 for both TRV-A and TRV-B in upper 9-mile evaluation area from RM 14.7 to 17.4.

Table 9-3. Considerations for risk management on ecological risk drivers

Risk Driver and LOE	BERA Results – RM 0 to RM 17.4		Upper 9-Mile Evaluation – RM 8.3 to RM 17.4. RM 8.3 to RM 14.7, and RM 14.7 to 17.4		Risk Management Considerations
	LOAEL HQ[a,b] Based on TRV-A[c]	LOAEL HQs[a,b] Based on TRV-B[d]	LOAEL HQ[a,b] Based on TRV-A[c]	LOAEL HQs[a,b] Based on TRV-B[d]	
Fish tissue	0.20–**5.2** (**1.0**–**27**) (PCDD/PCDF TEQ - fish; all fish species evaluated) 0.21–**5.2** (**1.1**–**27**) (total TEQ - fish; all fish species evaluated)	**13**–**340** (PCDD/PCDF TEQ-fish; all fish species evaluated) **14**–**340** (total TEQ-fish; all fish species evaluated)	0.017–**5.0** (0.087–**26**) (PCDD/PCDF TEQ - fish; all fish species evaluated) 0.038–**5.0** (0.20**–26**) (total TEQ - fish; all fish species evaluated)	**1.1**–**330** (PCDD/PCDF TEQ - fish; all fish species evaluated) **2.6**–**330** (total TEQ - fish; all fish species evaluated)	• TRV-A based on SSD within range of measured LOAELs evaluated • Alternative TRV-A based on SSD with relatively poor visual and statistical fit to the empirical data and likely over-predicts risk; alternative SSD less than lowest measured LOAEL • TRV-B based on interpolated larvae concentration from egg tissue
Fish diet	**140**–**200** (PCDD/PCDF TEQ - fish; all fish species evaluated) **140**–**210** (total TEQ - fish; all fish species evaluated)	ne	**2.4**–**220** (PCDD/PCDF TEQ - fish; all fish species evaluated) **2.5**–**220** (total TEQ - fish; all fish species evaluated	ne	• LOAEL TRV 2 orders of magnitude less than LOAELs reported for 2 other species
Fish egg	< 1.0 (mummichog)	< 1.0 (mummichog)	**1.0-1.7** (PCDD/PCDF, mummichog) **1.0-1.7** (total TEQ, mummichog)	**1.0-1.7** (PCDD/PCDF, mummichog) **1.0-1.7** (total TEQ, mummichog)	• TRV-A and TRV-B based on same literature source based on weekly injection of pheasants • TRV-B extrapolated from study using interspecies extrapolation factor of 5 • High variability of bird TEFs and differences among species sensitivities to dioxin-like compounds
Bird diet	0.014–**4.2** (PCDD/PCDF TEQ - bird; all bird species evaluated) 0.044–**5.0** (total TEQ - bird; all bird species evaluated)	0.071–**21** (PCDD/PCDF TEQ - bird; all bird species evaluated) 0.22–**25** (total TEQ - bird; all bird species evaluated)	0.014-0.74 (PCDD/PCDF TEQ - bird; all bird species evaluated) 0.096-**1.1** (total TEQ - bird; all bird species evaluated)	0.068–**3.7** (PCDD/PCDF TEQ - bird; all bird species evaluated) 0.48–**5.3** (total TEQ - bird; all bird species evaluated)	• TRV-A based on injected (not measured) concentration in crayfish; TRV-A results in HQs < 1.0 • TRV-B based on uncontrolled field data and limited sample size (n = 1 tissue composite); LOAEL based on relative reduction at Arthur Kill site compared to Sandy Hook site • Evaluation as TEQ (based on fish TEFs) questionable for invertebrates because of limited evidence for ligand activation of the Ah (dioxin) cellular receptor in these organisms (i.e., they were not susceptible to the dioxin-like effects reported for vertebrates) (Van den Berg et al. 1998). • Low HQs and HQs < 1.0 conflicted with bird egg LOE, which relied on literature-based BMFs to estimate egg tissue concentrations
Bird egg	0.38–**7.5** (PCDD/PCDF TEQ - bird; great blue heron and belted kingfisher) **1.0**–**15** (total TEQ - bird; great blue heron and belted kingfisher)	0.43–**37** (PCDD/PCDF TEQ - bird; great blue heron and belted kingfisher) **1.0**–**74** (total TEQ - bird; great blue heron and belted kingfisher)	0.64–**4.4** (PCDD/PCDF TEQ - bird; great blue heron and belted kingfisher) **2.2**–**9.6** (total TEQ - bird; great blue heron and belted kingfisher)	0.66–**22** (PCDD/PCDF TEQ - bird; great blue heron and belted kingfisher) **2.9**–**48** (total TEQ - bird; great blue heron and belted kingfisher)	• TRV-A based on SSD with no chicken reproduction data (SSD not expected to have changed significantly with inclusion of chicken data) • TRV-B based on SSD inclusive of chicken reproduction data • TEQ sensitivities varied with Ah receptor; chickens in high-sensitivity group and great blue heron in low-sensitivity group • Species-specific BMF for heron and kingfisher based on heron and kingfisher data, respectively • Higher bird egg HQs conflicted with bird diet LOE
Mammal diet	0.79–**2.6** (PCDD/PCDF TEQ - mammal; mink and river otter) **1.0**–**2.9** (total TEQ - mammal; mink and river otter)	**3.2–10** (PCDD/PCDF TEQ - mammal; mink and river otter) **4.1**–**12** (total TEQ - mammal; mink and river otter)	0.28–**2.1** (PCDD/PCDF TEQ - mammal; mink and river otter) 0.36–**2.3** (total TEQ - mammal; mink and river otter)	**1.1–8.6** (PCDD/PCDF TEQ - mammal; mink and river otter) **1.4**–**9.4** (total TEQ - mammal; mink and river otter)	• TRV-A based on mink fed laboratory-prepared diet and TRV-B based on mink fed field-collected carp • HQ based on range of dietary scenarios and exposure areas; mink HQs lower based on consumption of aquatic prey and assuming zero exposure from terrestrial prey

Table 9-3. Considerations for risk management on ecological risk drivers

Risk Driver and LOE	BERA Results – RM 0 to RM 17.4		Upper 9-Mile Evaluation – RM 8.3 to RM 17.4. RM 8.3 to RM 14.7, and RM 14.7 to 17.4		Risk Management Considerations
	LOAEL HQ[a,b] Based on TRV-A[c]	LOAEL HQs[a,b] Based on TRV-B[d]	LOAEL HQ[a,b] Based on TRV-A[c]	LOAEL HQs[a,b] Based on TRV-B[d]	
Total DDx					
Benthic invertebrate tissue	0.15–0.62 (**1.6**–**6.8**) (worm and blue crab)	0.12–0.52 (worm and blue crab)	0.050–0.49 (0.55–**5.4**) (worm and blue crab)	0.042–0.42 (worm and blue crab)	• TRV-A and alternative TRV-A based on SSD less than lowest measured LOAEL • Alternative TRV-A based on relatively poor visual and statistical fit to the empirical data and likely overestimates toxicity • Upper 9-mile evaluation based on maximum blue crab tissue data (n = 0–2 samples per exposure area) • HQs < 1.0 for both TRV-A and TRV-B in upper 9-mile evaluation area from RM 14.7 to RM 17.4.
Fish tissue	**1.3** (common carp)	**1.7** (common carp)	0.25–**1.3** (common carp and white catfish)	0.33–**1.7** (common carp and white catfish)	• TRV-A based on SSD less than lowest measured LOAEL evaluated • TRV-B based on SSD within range of measured LOAELs evaluated (which included TRVs based on field-collected organisms) • HQs < 1.0 for other 10 of 12 fish species evaluated
Bird diet	0.018–0.26 (all bird species evaluated)	0.16–**2.4** (all bird species evaluated)	0.040–0.16 (great blue heron and belted kingfisher)	0.37–**1.5** (great blue heron and belted kingfisher)	• TRV-A based on SSD within range of measured LOAELs evaluated; TRV-A results in HQs < 1.0 • TRV-B based on field study of eggshell thinning in pelicans • Low HQs and HQs < 1.0 conflicted with bird egg LOE, which relied on literature-based BMFs to estimate egg tissue concentrations
Bird egg	0.14–**1.8** (great blue heron and belted kingfisher)	0.19–**18** (great blue heron and belted kingfisher)	0.27–**1.0** (great blue heron and belted kingfisher)	0.37–**9.9** (great blue heron and belted kingfisher)	• TRV-A based on SSD not inclusive of chicken reproduction data • TRV-B based on SSD inclusive of chicken reproduction data • Uncertainty associated with use of literature-based BMFs to predict bird egg concentrations; species-specific BMF for heron based heron data, and species-specific BMF for kingfisher based on geomean of 5 species for comparison to TRV-A and range of BMFs evaluated for comparison to TRV-B • High bird egg HQs conflicted with bird diet LOE

[a] The NJDEP acknowledges that the BERA for the LPRSA identifies unacceptable risk. However, the NJDEP's *Ecological Evaluation Technical Guidance*, published in August 2018 (NJDEP 2018), does not advocate the use of more than one set of TRVs for individual contaminant-receptor pairs. It is the NJDEP's position that a single TRV set (NOAEL and LOAEL) that evaluates the more sensitive species and endpoints to characterize risk to invertebrates, fish, birds, and wildlife should be selected in a BERA, not two sets of TRVs as presented in this document. It is also the NJDEP's position that, for the LPRSA, use of one conservative TRV set derived for sensitive receptors and sensitive endpoints most clearly demonstrates the degree of risk for individual contaminant-receptor pairs and ensures protection of threatened, endangered, and species of special concern.

[b] HQs were based on LOAEL TRVs.

[c] TRVs were derived from the primary literature review.

[d] TRVs based on USEPA's LPR restoration project FFS (Louis Berger et al. 2014), the first draft of the LPR restoration project FFS (Malcolm Pirnie 2007), or USEPA's LPR restoration project PAR (Battelle 2005).

Ah – aryl hydrocarbon
BERA – baseline ecological risk assessment
BMF – biomagnification factor
CF – conversion factor
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
EPC – exposure point concentration
FFS – focused feasibility study
HQ – hazard quotient
LOAEL – lowest-observed-adverse-effect level
LOE – line of evidence
LPR – Lower Passaic River
LPRSA – Lower Passaic River Study Area
ne – not evaluated
NJDEP – New Jersey Department of Environmental Protection
NOAEL – no-observed-adverse-effect level
PCB – polychlorinated biphenyl
PCDD – polychlorinated dibenzo-*p*-dioxin
PCDF –polychlorinated dibenzofuran
RM – river mile
SQT – sediment quality triad
SSD – species sensitivity distribution
TEF – toxic equivalency factor
TEQ – toxic equivalent
total DDx – sum of all six DDT isomers (2,4′-DDD, 4,4′-DDD, 2,4′-DDE, 4,4′-DDE, 2,4′-DDT and 4,4′-DDT)
TRV – toxicity reference value
USEPA – US Environmental Protection Agency
WOE – weight of evidence

As discussed in the BERA, a number of preliminary COCs were not recommended as risk drivers to be carried forward to inform major risk management decisions. Preliminary COCs that were not retained as risk drivers in the BERAwere excluded primarily for two reasons:

- Background concentrations indicated that risks in the LPRSA would not be different or would be less than those in background (upstream or regional) areas.
- The LOE for which a LOAEL HQ was ≥ 1.0 could not reliably predict risks to a level appropriate for costly remedial decisions. This included the tissue residue LOE for metals[7] and the sediment LOE for aquatic plants.[8]

As presented in the BERA, 11 metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel, silver, selenium, vanadium, and zinc), TBT, HPAHs, dieldrin, and cyanide were not recommended as risk drivers based on background concentrations and/or the uncertainty of the LOE for remedial decisions. The rationale for why each preliminary COC was not identified as a risk driver is discussed in detail in the BERA. For those preliminary COCs for which new receptors with LOAEL HQs ≥ 1.0 were identified in this upper 9-mile evaluation but not in the BERA, the reasons for their exclusion as risk drivers are as follows (other preliminary COCs are discussed in the BERA):

- **Cadmium** – Cadmium was identified as a preliminary COC based on the fish diet LOE (upper 9-mile HQs for mummichog, common carp, channel catfish, white catfish, white perch, white sucker, and American eel ranged from 0.55 to 1.5) and the fish tissue LOE (upper 9-mile HQs for American eel ranged from 0.81 to 1.2). Cadmium was not identified as a preliminary COC for any other LOE or receptor group, and HQs for fish were just above 1.0 for several fish species. Furthermore, USEPA (2007e) recommends a dietary assessment of inorganic metals only for conservative screening purposes, because the uptake by and toxicity of inorganic metals to fish can vary widely depending upon a number of factors, including (but not limited to) digestive physiology (e.g., gut residence time), food nutritional quality, distribution and chemical form of

[7] The use of a tissue residue approach for metals (except for methylmercury and selenium) was highly uncertain because of the wide range of strategies used by organisms to store, detoxify, and excrete bioaccumulated metals (e.g., fish and invertebrates may regulate their body burdens of some metals, although metals regulation, and the strategy thereof, is species and metal specific) (Adams et al. 2011; USEPA 2007e). The USEPA framework for metals risk assessment (USEPA 2007e) recommends against the use of a tissue residue approach, stating that the CBR approach for metals "does not appear to be a robust indicator of toxic dose."

[8] The relevance of soil toxicity thresholds generated for agricultural crops to the sediment exposure of aquatic plants was unknown. Soil toxicity data were primarily from studies of agricultural crops and/or waste soils. Many of these soil toxicity data were based on a highly bioavailable chemical form that is not representative of natural soils or sediment (Efroymson et al. 1997).

metals in prey tissue, and environmental conditions under which toxicity is evaluated (e.g., temperature). In addition, cadmium was not recommended as a risk driver because of the uncertainty associated with the evaluation of regulated metals in tissue[9] as a LOE.

- **Copper** – Copper was identified as a preliminary COC based on the following LOEs: benthic invertebrate tissue (blue crab upper 9-mile HQ = 2.4), fish tissue (mummichog, other forage fish, white perch, channel catfish, and American eel upper 9-mile HQs ranged from 0.42 to 8.0), bird diet (sandpiper and great blue heron upper 9-mile HQs ranged from 0.25 to 2.2), surface water (benthic invertebrate, fish, zooplankton, and aquatic plant estuarine and freshwater upper 9-mile HQs were 1.9 and 4.6, respectively, and amphibian upper 9-mile HQ = 1.0), and sediment for aquatic plant populations (upper 9-mile HQs ranged from 0.76 to 2.3). Copper was not recommended as a risk driver for the following reasons:
  - Uncertainty associated with the evaluation of regulated metals in tissue[10]
  - Uncertainty associated with the aquatic plant assessment for sediment due to a screening level based on a highly bioavailable chemical form[11]
  - Evaluation of background. Dissolved estuarine surface water LPRSA EPCs for copper (2.61 µg/L) were less than the maximum (3.36 µg/L) and UCL (2.7 µg/L) background surface water concentrations above Dundee Dam. Sediment EPCs for copper (170 mg/kg for the entire LPRSA and 160 mg/kg for exposure area RM 8.3 to RM 17.4) were less than or similar to maximum (209 mg/kg) and UCL (150 mg/kg) background sediment concentrations above Dundee Dam.
  - Uncertainty associated with the amphibian assessment for water related to the representativeness of surface water data for amphibian shoreline habitat

[9] The use of a tissue residue approach for metals (except for methylmercury and selenium) was highly uncertain because of the wide range of strategies used by organisms to store, detoxify, and excrete bioaccumulated metals (e.g., fish and invertebrates may regulate their body burdens of some metals, although metals regulation, and the strategy thereof, is species and metal specific) (Adams et al. 2011; USEPA 2007e).

[10] The use of a tissue residue approach for metals (except for methylmercury and selenium) was highly uncertain because of the wide range of strategies used by organisms to store, detoxify, and excrete bioaccumulated metals (e.g., fish and invertebrates may regulate their body burdens of some metals, although metals regulation, and the strategy thereof, is species and metal specific) (Adams et al. 2011; USEPA 2007e).

[11] Soil toxicity data were primarily from studies of agricultural crops and/or waste soils. Many of these soil toxicity data were based on a highly bioavailable chemical form that is not representative of natural soils or sediment (Efroymson et al. 1997). The relevance of soil toxicity thresholds generated for agricultural crops to the sediment exposure of aquatic plants was unknown.

exposure areas (surface water sample locations were targeted at the deepest point, laterally, across the river) and limited toxicity data

- **Lead** – Lead was identified as a preliminary COC based on the following LOEs: benthic invertebrate tissue (worm upper 9-mile HQs ranged from 0.21 to 3.2), bird diet (spotted sandpiper upper 9-mile HQs ranged from 0.66 to 11, and belted kingfisher upper 9-mile HQs ranged from 0.0084 to 1.3), sediment for aquatic plant populations (upper 9-mile HQs ranged from 2.0 to 2.3), and surface water LOE for amphibians (upper 9-mile HQ = 3.0). Lead was not recommended as a risk driver based on the following reasons:
  - Uncertainty associated with the evaluation of regulated metals in tissue[12]
  - Uncertainty of the aquatic plant assessment for sediment due to a screening level based on a highly bioavailable chemical form[13]
  - Background evaluation. The sediment EPCs for lead (270 mg/kg in both the entire LPRSA and exposure area RM 8.3 to RM 17.4) were less than the UCL (440 mg/kg) background concentration above Dundee Dam.
  - Uncertainty associated with the amphibian assessment for water related to the representativeness of surface water data for amphibian shoreline habitat exposure areas (surface water sample locations were targeted at the deepest point, laterally, across the river) and limited toxicity data.
- **Methylmercury/mercury** – Methylmercury/mercury was identified as a preliminary COC based on the following LOEs: fish tissue (American eel, largemouth bass, smallmouth bass, and white catfish upper 9-mile HQs ranged from 0.40 to 2.6), fish diet (mummichog upper 9-mile HQs ranged from 0.011 to 1.3), bird diet (great blue heron upper 9-mile HQs ranged from 0.049 to 1.1), mammal diet (mink and river otter upper 9-mile HQs ranged from 0.062 to 1.1), and sediment for aquatic plant populations (upper 9-mile HQs ranged from 5.7 to 9.7). Methylmercury/mercury was not recommended as a risk driver for the following reasons:
  - Evaluation of background. The sediment EPCs for mercury (2,900 µg/kg in the entire LPRSA and 2,700 µg/kg in exposure area RM 8.3 to 17.4) were less than the UCL (2,910 µg/kg) background sediment concentration above

[12] The use of a tissue residue approach for metals (except for methylmercury and selenium) was highly uncertain because of the wide range of strategies used by organisms to store, detoxify, and excrete bioaccumulated metals (e.g., fish and invertebrates may regulate their body burdens of some metals, although metals regulation, and the strategy thereof, is species and metal specific) (Adams et al. 2011; USEPA 2007e).

[13] Soil toxicity data were primarily from studies of agricultural crops and/or waste soils. Many of these soil toxicity data were based on a highly bioavailable chemical form that is not representative of natural soils or sediment (Efroymson et al. 1997). The relevance of soil toxicity thresholds generated for agricultural crops to the sediment exposure of aquatic plants was unknown.

Dundee Dam. In addition, LPRSA methylmercury fish tissue EPCs were less than maximum concentrations for 7 of 10 species above Dundee Dam, and similar to or less than UCLs for 3 of 4 fish species for which UCLs above Dundee Dam could be calculated. Mummichog LPRSA EPCs for methylmercury were less than UCLs in mummichog from Jamaica Bay/Lower Harbor.

- Uncertainty associated with the aquatic plant assessment for sediment due to a screening level based on a highly bioavailable chemical form[14]
- Uncertainty associated with the bird diet; the TRV resulting in HQs > 1.0, which was derived using an interspecies extrapolation factor of 3 (assumed mallards were three 3 less sensitive than the selected avian species evaluated), and was based on exposure to methylmercury dicyandiamide, a fungicide that is not a form of mercury expected to be associated with the LPRSA
- Uncertainty associated with the mammal diet; the TRV resulting in HQs > 1.0, which was derived using a subchronic-to-chronic extrapolation factor of 10.

- **Nickel** – Nickel was identified as a preliminary COC based on the benthic invertebrate tissue LOE (upper 9-mile worm HQ = 21 and mussel HQs ranged from 0.23 to 6.9) and the fish diet LOE (upper 9-mile HQs for mummichog, American eel, and northern pike ranged from 0.38 to 1.2). Nickel was not recommended as a risk driver based on the uncertainty associated with the evaluation of regulated metals in tissue,[15] and the lack of certainty in the fish dietary evaluation for metals. USEPA (2007e) recommends a dietary assessment of inorganic metals for conservative screening purposes only, because the uptake by and toxicity of inorganic metals to fish can vary widely depending upon a number of factors, including (but not limited to) digestive physiology (e.g., gut residence time), food nutritional quality, distribution and chemical form of metals in prey tissue, and environmental conditions under which toxicity is evaluated (e.g., temperature).
- **Selenium** – Selenium was identified as a preliminary COC based on the following LOEs: benthic invertebrate tissue (upper 9-mile worm HQ = 1.3 and

[14] The relevance of soil toxicity thresholds generated for agricultural crops to the sediment exposure of aquatic plants was unknown. Soil toxicity data were primarily from studies of agricultural crops and/or waste soils. Many of these soil toxicity data were based on a highly bioavailable chemical form that is not representative of natural soils or sediment (Efroymson et al. 1997).

[15] The use of a tissue residue approach for metals (except for methylmercury and selenium) was highly uncertain because of the wide range of strategies used by organisms to store, detoxify, and excrete bioaccumulated metals (e.g., fish and invertebrates may regulate their body burdens of some metals, although metals regulation, and the strategy thereof, is species and metal specific) (Adams et al. 2011; USEPA 2007e).

blue crab HQ = 1.0), fish tissue (upper 9-mile white perch HQs ranged from 0.52 to 1.3), mammal diet (upper 9-mile mink and river otter HQs ranged from 0.087 to 1.4), and aquatic plant sediment (upper 9-mile HQs ranged from 0.71 to 1.5). Selenium was not recommended as a risk driver based on the uncertainty of the aquatic plant assessment for sediment. This uncertainty was due to a screening level based on a highly bioavailable chemical form.[16] In addition, selenium was not recommended as a risk driver based on a comparison to background; sediment EPCs (0.93 mg/kg in the entire LPRSA and 0.74 mg/kg in exposure area RM 8.3 to RM 17.4) were less than the UCL and maximum concentrations above Dundee Dam (27 and 2.7[17] mg/kg, respectively) and the UCL from Jamaica Bay (1.4 mg/kg).

[16] The relevance of soil toxicity thresholds generated for agricultural crops to the sediment exposure of aquatic plants was unknown. Soil toxicity data were primarily from studies of agricultural crops and/or waste soils. Many of these soil toxicity data were based on a highly bioavailable chemical form that is not representative of natural soils or sediment (Efroymson et al. 1997).

[17] As discussed in Appendix J of the BERA, maximum background concentrations were derived excluding outliers. UCL background concentrations were derived including all data.

10 References

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